

SEARCH REQUEST FORM

Access DB# _____

Scientific and Technical Information Center

Requester's Full Name: _____ Examiner #: _____ Date: _____
 Art Unit: _____ Phone Number 30 _____ Serial Number: _____
 Mail Box and Bldg/Room Location: _____ Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

 Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc. if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: _____

Inventors (please provide full names): _____

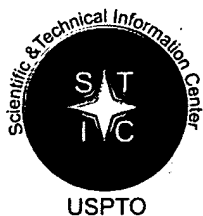
Earliest Priority Filing Date: _____

For Sequence Searches Only Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.

STAFF USE ONLY

Searcher: <u>P. Schreiber</u>	Type of Search	Vendors and cost where applicable
Searcher Phone #: <u>272-2520</u>	NA Sequence (#) <u>21</u>	STN _____
Searcher Location: <u>Remsen E01 A61</u>	AA Sequence (#) _____	Dialog _____
Date Searcher Picked Up: <u>4/15</u>	Structure (#) _____	Questel/Orbit _____
Date Completed: <u>4/15</u>	Bibliographic _____	Dr. Link _____
Searcher Prep & Review Time: <u>12</u>	Litigation _____	Lexis/Nexis _____
Clerical Prep Time: _____	Fulltext _____	Sequence Systems <u>CompuGen</u>
Online Time: <u>92</u>	Patent Family _____	WWW/Internet _____
	Other _____	Other (specify) _____

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STIC Search Report

Biotech-Chem Library

STIC Database Tracking Number: 119583

TO: Terra Gibbs
Location: rem/2d10/2c18
Art Unit: 1635
Friday, April 16, 2004

Case Serial Number: 09/954556

From: David Schreiber
Location: Biotech-Chem Library
Remsen E01A61
Phone: 272-2526

david.schreiber@uspto.gov

Search Notes

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STIC SEARCH RESULTS FEEDBACK FORM

Biotech-Chem Library

Questions about the scope or the results of the search? Contact *the searcher or contact*:

Mary Hale, Information Branch Supervisor
Remsen Bldg. 01 D86
571-272-2507

Voluntary Results Feedback Form

➤ I am an examiner in Workgroup: Example: 1610

➤ Relevant prior art **found**, search results used as follows:

- ☐ 102 rejection
- ☐ 103 rejection
- ☐ Cited as being of interest.
- ☐ Helped examiner better understand the invention.
- ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
(journal articles, conference proceedings, new product announcements etc.)

➤ Relevant prior art **not found**:

- ☐ Results verified the lack of relevant prior art (helped determine patentability).
- ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC-Biotech-Chem Library, Remsen Bldg.



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Schreiber, David

119583

From: Gibbs, Terra
Sent: Wednesday, March 31, 2004 4:20 PM
To: Schreiber, David
Subject: Sequence search request...

Hi David,

I have another request for a score over length search:

I need a length limited nucleotide sequence search against nucleobases 1479 through 1508 of SEQ ID NO:3 in USSN 09,954,556, where the returns are rank ordered based on the score over length/ratio as we've discussed. I need the lengths limited to hits between 8 and 50 nucleotides, and I'll take as many hits as you can import into excel (64,000?), and alignments for anything above .75 on the above ratio. Hope this is clear, please call me if it's not. I also need the interference databases searched if possible.

Terra Cotta Gibbs, Ph.D.
Art Unit 1635
Remsen Building 2D10
571-272-0758

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GenCore version 5.1.6
Copyright (c) 1993 - 2004 Comphen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 15, 2004, 16:33:22 ; Search time 0.001 Seconds
(without alignments)
79.200 Million cell updates/sec

Title: us-09-954-556-3
Perfect score: 30
Sequence: 1 cagcacaagaagccagacttcagcacca 30

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 0.5

Searched: 102 seqs, 1320 residues

Total number of hits satisfying chosen parameters: 204

Minimum DB seq length: 8
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 102 summaries

Database : rge.seq *

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	14.4	48.0	17	1	AR048076
2	14.4	48.0	17	1	AR048079
3	14.4	48.0	17	1	AR108979
4	14.4	48.0	17	1	AR108982
5	14.4	48.0	18	1	AR048082
6	14.4	48.0	18	1	AR108985
7	13.8	46.0	17	1	A20708
8	13.8	46.0	17	1	A21027
9	13.8	46.0	17	1	BD249433
10	13.8	46.0	17	1	AR340497
11	13.8	46.0	17	1	AX008727
12	13.8	46.0	17	1	AX325661
13	13.8	46.0	17	1	AX325662
14	13.8	46.0	18	1	A21030
15	13.8	46.0	18	1	AR048072
16	13.8	46.0	18	1	AR108975
17	13.8	46.0	18	1	BD249435
18	13.8	46.0	18	1	AR340499
19	13.8	46.0	18	1	AX008729
20	13.8	46.0	18	1	AX084246
21	13.8	46.0	18	1	AX084249
22	12.8	42.7	17	1	AR048077
23	12.8	42.7	17	1	AR048078
24	12.8	42.7	17	1	AR048080
25	12.8	42.7	17	1	AR048081
26	12.8	42.7	17	1	AR108980
27	12.8	42.7	17	1	AR108981
28	12.8	42.7	17	1	AR108983
29	12.8	42.7	17	1	AR108984
30	12	40.0	14	1	BD209410
31	12	40.0	15	1	AI2791
32	11.4	38.0	15	1	I27893
33	11	36.7	14	1	AB9566

34	11	36.7	14	1	AB9567	ACCESSION:AB9567
35	11	36.7	14	1	BD067079	ACCESSION:BD067079
36	11	36.7	14	1	BD067080	ACCESSION:BD067080
37	10.8	36.0	14	1	BD209394	ACCESSION:BD209394
38	10	33.3	10	1	BD239909	ACCESSION:BD239909
39	10	33.3	12	1	A71513	ACCESSION:A71513
40	10	33.3	13	1	AX003113	ACCESSION:AX003113
41	9.4	31.3	11	1	AX623670	ACCESSION:AX623670
42	9.4	31.3	11	1	AX629388	ACCESSION:AX629388
43	9.4	31.3	11	1	AX629909	ACCESSION:AX629909
44	9.4	31.3	11	1	AX630102	ACCESSION:AX630102
45	9.4	31.3	11	1	AX631091	ACCESSION:AX631091
46	9.4	31.3	12	1	AR167701	ACCESSION:AR167701
47	9.4	31.3	12	1	E29585	ACCESSION:E29585
48	9.4	31.3	12	1	E38691	ACCESSION:E38691
49	9.4	31.3	12	1	E64117	ACCESSION:E64117
50	9.4	31.3	12	1	BD061483	ACCESSION:BD061483
51	9.4	31.3	12	1	BD101930	ACCESSION:BD101930
52	9	30.0	10	1	BD240229	ACCESSION:BD240229
53	9	30.0	10	1	BD248497	ACCESSION:BD248497
54	9	30.0	10	1	AR303300	ACCESSION:AR303300
55	9	30.0	10	1	AX510716	ACCESSION:AX510716
56	9	30.0	11	1	AX471386	ACCESSION:AX471386
57	9	30.0	11	1	AX625231	ACCESSION:AX625231
58	9	30.0	11	1	AX626985	ACCESSION:AX626985
59	9	30.0	11	1	AX628452	ACCESSION:AX628452
60	9	30.0	11	1	AX630058	ACCESSION:AX630058
61	9	30.0	11	1	AX632652	ACCESSION:AX632652
62	8.4	28.0	10	1	AR070986	ACCESSION:AR070986
63	8.4	28.0	10	1	AR161933	ACCESSION:AR161933
64	8.4	28.0	10	1	BD240233	ACCESSION:BD240233
65	8.4	28.0	10	1	E54684	ACCESSION:E54684
66	8.4	28.0	10	1	AR181983	ACCESSION:AR181983
67	8.4	28.0	10	1	AR303303	ACCESSION:AR303303
68	8.4	28.0	10	1	AR303338	ACCESSION:AR303338
69	8.4	28.0	10	1	AR304485	ACCESSION:AR304485
70	8.4	28.0	10	1	AR382219	ACCESSION:AR382219
71	8.4	28.0	10	1	AX152226	ACCESSION:AX152226
72	8.4	28.0	10	1	AX152377	ACCESSION:AX152377
73	8.4	28.0	10	1	AX153162	ACCESSION:AX153162
74	8.4	28.0	10	1	AX362608	ACCESSION:AX362608
75	8.4	28.0	10	1	AX377325	ACCESSION:AX377325
76	8.4	28.0	10	1	BD065117	ACCESSION:BD065117
77	8.4	28.0	10	1	BD167088	ACCESSION:BD167088
78	8.4	28.0	11	1	A02163	ACCESSION:A02163
79	8.4	28.0	11	1	A04685	ACCESSION:A04685
80	8.4	28.0	11	1	AR030153	ACCESSION:AR030153
81	8.4	28.0	11	1	AR353840	ACCESSION:AR353840
82	8.4	28.0	11	1	AX470484	ACCESSION:AX470484
83	8.4	28.0	11	1	AX470732	ACCESSION:AX470732
84	8.4	28.0	11	1	AX471384	ACCESSION:AX471384
85	8.4	28.0	11	1	AX616455	ACCESSION:AX616455
86	8.4	28.0	11	1	AX624591	ACCESSION:AX624591
87	8.4	28.0	11	1	AX625489	ACCESSION:AX625489
88	8.4	28.0	11	1	AX625964	ACCESSION:AX625964
89	8.4	28.0	11	1	AX626847	ACCESSION:AX626847
90	8.4	28.0	11	1	AX627093	ACCESSION:AX627093
91	8.4	28.0	11	1	AX627287	ACCESSION:AX627287
92	8.4	28.0	11	1	AX627505	ACCESSION:AX627505
93	8.4	28.0	11	1	AX627654	ACCESSION:AX627654
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96	8.4	28.0	11	1	AX629116	ACCESSION:AX629116
97	8.4	28.0	11	1	AX629158	ACCESSION:AX629158
98	8.4	28.0	11	1	AX629366	ACCESSION:AX629366
99	8.4	28.0	11	1	AX629825	ACCESSION:AX629825
100	8.4	28.0	11	1	AX629827	ACCESSION:AX629827
101	8.4	28.0	11	1	AX630195	ACCESSION:AX630195
102	8.4	28.0	11	1	AX632012	ACCESSION:AX632012

ALIGNMENTS

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RESULT 1
AR048076          17 bp   DNA      linear   PAT 29-SEP-1999
LOCUS              Sequence 17 from patent US 5821046.
ACCESSION          AR048076
VERSION            AR048076.1  GI:5970419
KEYWORDS
SOURCE             Unknown.
ORGANISM           Unclassified.
REFERENCE           1 (bases 1 to 17)
AUTHORS            Karn,J., Galt,M.John., Heaphy,S. and Dingwall,C.
TITLE              RNA oligonucleotides that bind HIV tat protein
JOURNAL            Patent: US 5821046-A 17 13-OCT-1998;
FEATURES            Location/Qualifiers
source             1..17
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Query Match          48.0%; Score 14.4; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 9.1;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1490 AGCCAGACTTCAGCAGC 1506
Db      1 AGCCAGANTTGAGCAGC 17

RESULT 2
AR048079          17 bp   DNA      linear   PAT 29-SEP-1999
LOCUS              Sequence 20 from patent US 5821046.
ACCESSION          AR048079
VERSION            AR048079.1  GI:5970422
KEYWORDS
SOURCE             Unknown.
ORGANISM           Unclassified.
REFERENCE           1 (bases 1 to 17)
AUTHORS            Karn,J., Galt,M.John., Heaphy,S. and Dingwall,C.
TITLE              RNA oligonucleotides that bind HIV tat protein
JOURNAL            Patent: US 5821046-A 20 13-OCT-1998;
FEATURES            Location/Qualifiers
source             1..17
                  /organism="unknown"
                  /mol_type="unassigned DNA"

Query Match          48.0%; Score 14.4; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 9.1;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1490 AGCCAGACTTCAGCAGC 1506
Db      1 AGCCAGANTTGAGCAGC 17

RESULT 3
AR108979          17 bp   DNA      linear   PAT 14-FEB-2001
LOCUS              Sequence 17 from patent US 6114109.
ACCESSION          AR108979
VERSION            AR108979.1  GI:12825255
KEYWORDS
SOURCE             Unknown.
ORGANISM           Unclassified.
REFERENCE           1 (bases 1 to 17)
AUTHORS            Karn,J., Galt,M.J., Heaphy,S. and Dingwall,C.
TITLE              Viral (HIV) growth inhibition
JOURNAL            Patent: US 6114109-A 17 05-SEP-2000;
FEATURES            Location/Qualifiers
source             1..17
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Best Local Similarity 88.2%; Pred. No. 9.1;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1490 AGCCAGACTTCAGCAGC 1506
Db      1 AGCCAGANTTGAGCAGC 17

RESULT 4
AR108982          17 bp   DNA      linear   PAT 14-FEB-2001
LOCUS              Sequence 20 from patent US 6114109.
ACCESSION          AR108982
VERSION            AR108982.1  GI:12825258
KEYWORDS
SOURCE             Unknown.
ORGANISM           Unclassified.
REFERENCE           1 (bases 1 to 17)
AUTHORS            Karn,J., Galt,M.J., Heaphy,S. and Dingwall,C.
TITLE              Viral (HIV) growth inhibition
JOURNAL            Patent: US 6114109-A 20 05-SEP-2000;
FEATURES            Location/Qualifiers
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                  /mol_type="unassigned DNA"

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Best Local Similarity 88.2%; Pred. No. 9.1;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1490 AGCCAGACTTCAGCAGC 1506
Db      1 AGCCAGANTTGAGCAGC 17

RESULT 5
AR048082          18 bp   DNA      linear   PAT 29-SEP-1999
LOCUS              Sequence 23 from patent US 5821046.
ACCESSION          AR048082
VERSION            AR048082.1  GI:5970425
KEYWORDS
SOURCE             Unknown.
ORGANISM           Unclassified.
REFERENCE           1 (bases 1 to 18)
AUTHORS            Karn,J., Galt,M.John., Heaphy,S. and Dingwall,C.
TITLE              RNA oligonucleotides that bind HIV tat protein
JOURNAL            Patent: US 5821046-A 23 13-OCT-1998;
FEATURES            Location/Qualifiers
source             1..18
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Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY      1490 AGCCAGACTTCAGCAGC 1506
Db      1 AGCCAGANTTGAGCAGC 17

RESULT 6
AR108985          18 bp   DNA      linear   PAT 14-FEB-2001
LOCUS              Sequence 23 from patent US 6114109.
ACCESSION          AR108985
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VERSION AR108985.1 GI:12825261
KEYWORDS Unknown.
SOURCE Unknown.
ORGANISM
REFERENCE Unclassified.
AUTHORS 1 (bases 1 to 18).
TITLE Karn, J., Galt, M.J., Heaphy, S. and Dingwall, C.
JOURNAL Viral (HIV) growth inhibition
Patent: US 6114109-A 23 05-SEP-2000;
FEATURES Location/Qualifiers
source 1..18
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/mol_type="unassigned DNA"

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QY 1490 AGCCAGACTTCAGCAGC 1506
DB 1 AGCCAGATTGAGCAGC 17
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|||||

RESULT 7
A20708 17 bp RNA linear PAT 03-OCT-1994
LOCUS A20708 Oligoribonucleotide 17-mer.
DEFINITION A20708
ACCESSION A20708.1 GI:641287
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
Patent: WO 9202228-A 2 20-FEB-1992;
FEATURES Location/Qualifiers
source 1..17
/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"

Query Match 46.0%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 11;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1490 AGCCAGACTTCAGCAGC 1506
DB 1 AGCCAGATTGAGCAGC 17
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RESULT 8
A21027 17 bp RNA linear PAT 03-OCT-1994
LOCUS A21027 Oligoribonucleotide.
DEFINITION A21027
ACCESSION A21027.1 GI:641329
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
Patent: WO 9202228-A 17 20-FEB-1992;
FEATURES Location/Qualifiers
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/organism="synthetic construct"
/mol_type="unassigned RNA"
/db_xref="taxon:32630"

Query Match 46.0%; Score 13.8; DB 1; Length 17;

Best Local Similarity 88.2%; Pred. No. 11;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1490 AGCCAGACTTCAGCAGC 1506
DB 1 AGCCAGATTGAGCAGC 17
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RESULT 9
BD249433 17 bp RNA linear PAT 17-JUL-2003
BD249433
LOCUS BD249433 Methods and kits for discovery of RNA-binding compounds.
DEFINITION BD249433
ACCESSION BD249433.1 GI:33059203
VERSION
KEYWORDS JP 2002526032-A/1.
SOURCE Human immunodeficiency virus 1 (HIV-1)
ORGANISM Viruses; Retroid viruses; Retroviridae; Lentivirus; Primate
lentivirus group.
1 (bases 1 to 17)
REFERENCE Karn, J. and Prescott, C.D.
AUTHORS Methods and kits for discovery of RNA-binding compounds
TITLE Patent: JP 2002526032-A 1 20-AUG-2002;
JOURNAL RIBOTARGETS LTD
COMMENT
OS HIV
PN JP 2002526032-A/1
PD 20-AUG-2002
PF 04-JUN-1999 JP 2000553615
PR 05-JUN-1998 GB 9812196.5, 02-MAR-1999 GB 9904790.4 PI
JONATHAN KARN, CATHERINE DENISE PRESCOTT
PC C1201/68, C12N15/09, G01N21/78, G01N33/53, G01N33/542, G01N33/566,
PC G01N37/00, PC C12N15/00
CC Methods and kits for discovery of RNA-binding compounds FH
Key Location/Qualifiers
FT source 1..17
/organism="HIV".
FEATURES Location/Qualifiers
source 1..17
/organism="Human immunodeficiency virus 1"
/mol_type="genomic RNA"
/db_xref="taxon:11676"

Query Match 46.0%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 11;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1490 AGCCAGACTTCAGCAGC 1506
DB 1 AGCCAGATTGAGCAGC 17
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RESULT 10
AR340497 17 bp RNA linear PAT 17-AUG-2003
AR340497
LOCUS AR340497 Sequence 1 from patent US 6573045.
DEFINITION AR340497
ACCESSION AR340497
VERSION AR340497.1 GI:33732097
KEYWORDS
SOURCE
ORGANISM
REFERENCE
AUTHORS
TITLE
JOURNAL
Patent: US 6573045-A 1 03-JUN-2003;
FEATURES Location/Qualifiers
source 1..17
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/mol_type="unassigned RNA"

Query Match 46.0%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 11;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1490 AGCCAGACTTCAGCAGC 1506
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Db

RESULT 11
 LOCUS AX008727 17 bp RNA linear PAT 06-SEP-2000
 DEFINITION Sequence 1 from Patent WO9964625.
 ACCESSION AX008727
 VERSION AX008727.1 GI:9996224
 KEYWORDS Human immunodeficiency virus
 SOURCE Human immunodeficiency virus
 ORGANISM Viruses; Retroviridae; Lentivirus; Primate
 Lentivirus group.

REFERENCE 1
 AUTHORS Prescott,C.D. and Karn,J.
 TITLE Methods and kits for discovery of rna-binding compounds
 JOURNAL Patent: WO 9964625-A 1 16-DEC-1999;
 RIBOTARGETS LIMITED (GB)
 FEATURES Location/Qualifiers
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 /organism="Human immunodeficiency virus"
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Query Match 46.0%; Score 13.8; DB 1; Length 17;
 Best Local Similarity 88.2%; Pred. No. 11;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1490 AGCCAGACTTCAGCAGC 1506
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 1 AGCCAGATTGAGCAGC 17

Db

RESULT 12
 LOCUS AX325661 17 bp DNA linear PAT 02-SEP-2002
 DEFINITION Sequence 1799 from Patent WO0192512.
 ACCESSION AX325661
 VERSION AX325661.1 GI:18096420
 KEYWORDS Solanum tuberosum (potato)
 SOURCE Solanum tuberosum
 ORGANISM Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
 Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
 asterids; lamids; Solanales; Solanaceae; Solanum.

REFERENCE 1
 AUTHORS Knäc,E.B., Gamber,H.B., Rice,M.C. and Kim,J.
 TITLE Targeted chromosomal genomic alterations in plants using modified
 JOURNAL single stranded oligonucleotides
 PATENT: WO 0192512-A 1799 06-DEC-2001;
 UNIVERSITY OF DELAWARE (US)
 FEATURES Location/Qualifiers
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 /db_xref="taxon:4113"

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 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1485 CAAGAAGCCAGACTTCA 1501
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 1 CAAGAAGCTAAACTTCA 17

Db

RESULT 13
 LOCUS AX325662/c

LOCUS AX325662 17 bp DNA linear PAT 02-SEP-2002
 DEFINITION Sequence 1800 from Patent WO0192512.
 ACCESSION AX325662
 VERSION AX325662.1 GI:18096421
 KEYWORDS Solanum tuberosum (potato)
 SOURCE Solanum tuberosum
 ORGANISM Eukaryota; Viridiplantae; Streptophyta; Embryophyta; Tracheophyta;
 Spermatophyta; Magnoliophyta; eudicotyledons; core eudicots;
 asterids; lamids; Solanales; Solanaceae; Solanum.

REFERENCE 1
 AUTHORS Knäc,E.B., Gamber,H.B., Rice,M.C. and Kim,J.
 TITLE Targeted chromosomal genomic alterations in plants using modified
 JOURNAL single stranded oligonucleotides
 PATENT: WO 0192512-A 1800 06-DEC-2001;
 UNIVERSITY OF DELAWARE (US)
 FEATURES Location/Qualifiers
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 /db_xref="taxon:4113"

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 Best Local Similarity 88.2%; Pred. No. 11;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1485 CAAGAAGCCAGACTTCA 1501
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 17 CAAGAAGCTAAACTTCA 1

Db

RESULT 14
 LOCUS A21030 18 bp RNA linear PAT 03-OCT-1994
 DEFINITION Oligoribonucleotide 18-mer.
 ACCESSION A21030
 VERSION A21030.1 GI:641332
 KEYWORDS synthetic construct
 SOURCE synthetic construct
 ORGANISM artificial sequences.

REFERENCE 1 (bases 1 to 18)
 AUTHORS VITAL (HIV) GROWTH INHIBITION
 TITLE Patent: WO 9202228-A 20 20-FEB-1992;
 JOURNAL Location/Qualifiers
 FEATURES 1..18
 /organism="synthetic construct"
 /mol_type="unassigned RNA"
 /db_xref="taxon:32630"

Query Match 46.0%; Score 13.8; DB 1; Length 18;
 Best Local Similarity 88.2%; Pred. No. 12;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1490 AGCCAGACTTCAGCAGC 1506
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 1 AGCCAGATTGAGCAGC 17

Db

RESULT 15
 LOCUS AR048072 18 bp DNA linear PAT 29-SEP-1999
 DEFINITION Sequence 13 from patent US 5821046.
 ACCESSION AR048072
 VERSION AR048072.1 GI:5970415
 KEYWORDS Unknown.
 SOURCE Unknown.
 ORGANISM Unclassified.

REFERENCE 1 (bases 1 to 18)
 AUTHORS Karn,J., Galt,M.,John., Heaphy,S. and Dingwall,C.
 TITLE RNA oligonucleotides that bind HIV tat protein

JOURNAL Patent: US 5821046-A 13 13-OCT-1998;
FEATURES Location/Qualifiers
source 1.18
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 46.0%; Score 13.8; DB 1; Length 18;
Best Local Similarity 88.2%; Pred. No. 12;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1490 AGCCAGACTTCAGCAGC 1506
|||||
Db 1 AGCCAGATTGAGCAGC 17

RESULT 16
LOCUS AR108975 18 bp DNA linear PAT 14-FEB-2001
DEFINITION Sequence 13 from patent US 6114109.
ACCESSION AR108975
VERSION AR108975.1 GI:12825251
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 18)
AUTHORS Karn,J., Galt,M.J., Heaphy,S. and Dingwall,C.
TITLE Viral (HIV) growth inhibition
JOURNAL Patent: US 6114109-A 13 05-SEP-2000;
FEATURES Location/Qualifiers
source 1.18
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 46.0%; Score 13.8; DB 1; Length 18;
Best Local Similarity 88.2%; Pred. No. 12;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1490 AGCCAGACTTCAGCAGC 1506
|||||
Db 1 AGCCAGATTGAGCAGC 17

RESULT 17
LOCUS BD249435 18 bp RNA linear PAT 17-JUL-2003
DEFINITION Methods and kits for discovery of RNA-binding compounds.
ACCESSION BD249435
VERSION BD249435.1 GI:33059205
KEYWORDS JP 2002526032-A/3.
SOURCE Human immunodeficiency virus 1 (HIV-1)
ORGANISM Human immunodeficiency virus 1
Viruses; Retroid viruses; Retroviridae; Lentivirus; Primate
Lentivirus group.
REFERENCE 1 (bases 1 to 18)
AUTHORS Karn,J. and Prescott,C.D.
TITLE Methods and kits for discovery of RNA-binding compounds
JOURNAL Patent: JP 2002526032-A 3 20-AUG-2002;
FEATURES Location/Qualifiers
source 1.18
/organism="Human immunodeficiency virus 1"
/db_xref="taxon:11676"

Query Match 46.0%; Score 13.8; DB 1; Length 18;
Best Local Similarity 88.2%; Pred. No. 12;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1490 AGCCAGACTTCAGCAGC 1506
|||||
Db 1 AGCCAGATTGAGCAGC 17

RESULT 18
LOCUS AR340499 18 bp RNA linear PAT 17-AUG-2003
DEFINITION Sequence 3 from patent US 6573045.
ACCESSION AR340499
VERSION AR340499.1 GI:33732099
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 18)
AUTHORS Karn,J. and Prescott,C.D.
TITLE Methods and kits for discovery of RNA-binding compounds
JOURNAL Patent: US 6573045-A 3 03-JUN-2003;
FEATURES Location/Qualifiers
source 1.18
/organism="unknown"
/mol_type="unassigned RNA"

Query Match 46.0%; Score 13.8; DB 1; Length 18;
Best Local Similarity 88.2%; Pred. No. 12;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1490 AGCCAGACTTCAGCAGC 1506
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Db 1 AGCCAGATTGAGCAGC 17

RESULT 19
LOCUS AX008729 18 bp RNA linear PAT 06-SEP-2000
DEFINITION Sequence 3 from Patent WO9964625.
ACCESSION AX008729
VERSION AX008729.1 GI:9996226
KEYWORDS
SOURCE Human immunodeficiency virus
ORGANISM Human immunodeficiency virus
Viruses; Retroid viruses; Retroviridae; Lentivirus; Primate
Lentivirus group.
REFERENCE 1
AUTHORS Prescott,C.D. and Karn,J.
TITLE Methods and kits for discovery of rna-binding compounds
JOURNAL Patent: WO 9964625-A 3 16-DEC-1999;
FEATURES Location/Qualifiers
source 1.18
/organism="Human immunodeficiency virus"
/mol_type="unassigned RNA"
/db_xref="taxon:12721"

Query Match 46.0%; Score 13.8; DB 1; Length 18;
Best Local Similarity 88.2%; Pred. No. 12;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1490 AGCCAGACTTCAGCAGC 1506
|||||
Db 1 AGCCAGATTGAGCAGC 17

FEATURES Location/Qualifiers
source 1.18
/organism="HIV".

FEATURES

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RESULT 20
LOCUS AX084246 18 bp DNA PAT 28-FEB-2001
DEFINITION Sequence 40 from Patent WO0110902.
ACCESSION AX084246
VERSION AX084246.1 GI:13185749
KEYWORDS
SOURCE
ORGANISM
REFERENCE
1
AUTHORS Shimkets, R.A. and Fernandes, E.
TITLE Nucleic acids and secreted polypeptides encoded thereby
JOURNAL Patent: WO 0110902-A 40 15-FEB-2001;
Curagen Corporation (US)
FEATURES
source
1..18
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="takon:32630"
/note="PCR PRIMER"

Query Match 46.0%; Score 13.8; DB 1; Length 18;
Best Local Similarity 88.2%; Pred. No. 12;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1481 CGACCAAGAGCCAGAC 1497
Db 2 CTACCAAGAGCCAGCC 18

RESULT 21
LOCUS AX084249/c 18 bp DNA PAT 28-FEB-2001
DEFINITION Sequence 43 from Patent WO0110902.
ACCESSION AX084249
VERSION AX084249.1 GI:13185752
KEYWORDS
SOURCE
ORGANISM
REFERENCE
1
AUTHORS Shimkets, R.A. and Fernandes, E.
TITLE Nucleic acids and secreted polypeptides encoded thereby
JOURNAL Patent: WO 0110902-A 43 15-FEB-2001;
Curagen Corporation (US)
FEATURES
source
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/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="takon:32630"
/note="PCR PRIMER"

Query Match 46.0%; Score 13.8; DB 1; Length 18;
Best Local Similarity 88.2%; Pred. No. 12;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1481 CGACCAAGAGCCAGAC 1497
Db 17 CTACCAAGAGCCAGCC 1

RESULT 22
LOCUS AR048077 17 bp DNA PAT 29-SEP-1999
DEFINITION Sequence 18 from patent US 5821046.
ACCESSION AR048077
VERSION AR048077.1 GI:5970420
KEYWORDS
SOURCE
ORGANISM
REFERENCE
1
AUTHORS Unknown.
TITLE Unknown.
JOURNAL Unclassified.
FEATURES
source
1 (bases 1 to 17)

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AUTHORS Karn, J., Galt, M., John, S., Heaphy, S. and Dingwall, C.
TITLE RNA oligonucleotides that bind HIV tat protein
JOURNAL Patent: US 5821046-A 18 13-OCT-1998;
FEATURES
source
1..17
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 42.7%; Score 12.8; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 16;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1490 AGCCAGACTTCAGCAGC 1506
Db 1 AGCCAGATTGAGCAGC 17

RESULT 23
LOCUS AR048078 17 bp DNA PAT 29-SEP-1999
DEFINITION Sequence 19 from patent US 5821046.
ACCESSION AR048078
VERSION AR048078.1 GI:5970421
KEYWORDS
SOURCE
ORGANISM
REFERENCE
1
AUTHORS Karn, J., Galt, M., John, S., Heaphy, S. and Dingwall, C.
TITLE RNA oligonucleotides that bind HIV tat protein
JOURNAL Patent: US 5821046-A 19 13-OCT-1998;
FEATURES
source
1..17
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 42.7%; Score 12.8; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 16;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1490 AGCCAGACTTCAGCAGC 1506
Db 1 AGCCAGATTGAGCAGC 17

RESULT 24
LOCUS AR048080 17 bp DNA PAT 29-SEP-1999
DEFINITION Sequence 21 from patent US 5821046.
ACCESSION AR048080
VERSION AR048080.1 GI:5970423
KEYWORDS
SOURCE
ORGANISM
REFERENCE
1
AUTHORS Karn, J., Galt, M., John, S., Heaphy, S. and Dingwall, C.
TITLE RNA oligonucleotides that bind HIV tat protein
JOURNAL Patent: US 5821046-A 21 13-OCT-1998;
FEATURES
source
1..17
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 42.7%; Score 12.8; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 16;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1490 AGCCAGACTTCAGCAGC 1506
Db 1 AGCCAGATTGAGCAGC 17

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RESULT 25
AR048081
LOCUS AR048081 17 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 22 from patent US 5821046.
ACCESSION AR048081
VERSION AR048081.1 GI:5970424
KEYWORDS
SOURCE
ORGANISM
REFERENCE
  1 (bases 1 to 17)
  Unclassified.
AUTHORS Karn,J., Gait,M.John., Heaphy,S. and Dingwall,C.
TITLE RNA oligonucleotides that bind HIV tat protein
JOURNAL Patent: US 5821046-A 22 13-OCT-1998;
FEATURES
  Location/Qualifiers
  1..17
  /organism="unknown"
  /mol_type="unassigned DNA"

Query Match 42.7%; Score 12.8; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 16;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1490 AGCCAGACTTCAGCAGC 1506
DB 1 AGCCAGATTNGAGCAGC 17

RESULT 26
AR108980
LOCUS AR108980 17 bp DNA linear PAT 14-FEB-2001
DEFINITION Sequence 18 from patent US 6114109.
ACCESSION AR108980
VERSION AR108980.1 GI:12825256
KEYWORDS
SOURCE
ORGANISM
REFERENCE
  1 (bases 1 to 17)
  Unclassified.
AUTHORS Karn,J., Gait,M.J., Heaphy,S. and Dingwall,C.
TITLE Viral (HIV) growth inhibition
JOURNAL Patent: US 6114109-A 18 05-SEP-2000;
FEATURES
  Location/Qualifiers
  1..17
  /organism="unknown"
  /mol_type="unassigned DNA"

Query Match 42.7%; Score 12.8; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 16;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1490 AGCCAGACTTCAGCAGC 1506
DB 1 AGCCAGATTNGAGCAGC 17

RESULT 27
AR108981
LOCUS AR108981 17 bp DNA linear PAT 14-FEB-2001
DEFINITION Sequence 19 from patent US 6114109.
ACCESSION AR108981
VERSION AR108981.1 GI:12825257
KEYWORDS
SOURCE
ORGANISM
REFERENCE
  1 (bases 1 to 17)
  Unclassified.
AUTHORS Karn,J., Gait,M.J., Heaphy,S. and Dingwall,C.
TITLE Viral (HIV) growth inhibition
JOURNAL Patent: US 6114109-A 19 05-SEP-2000;
FEATURES
  Location/Qualifiers
  1..17
  /organism="unknown"
  /mol_type="unassigned DNA"
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/mol_type="unassigned DNA"

Query Match 42.7%; Score 12.8; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 16;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1490 AGCCAGACTTCAGCAGC 1506
DB 1 AGCCAGATTNGAGCAGC 17

RESULT 28
AR108983
LOCUS AR108983 17 bp DNA linear PAT 14-FEB-2001
DEFINITION Sequence 21 from patent US 6114109.
ACCESSION AR108983
VERSION AR108983.1 GI:12825259
KEYWORDS
SOURCE
ORGANISM
REFERENCE
  1 (bases 1 to 17)
  Unclassified.
AUTHORS Karn,J., Gait,M.J., Heaphy,S. and Dingwall,C.
TITLE Viral (HIV) growth inhibition
JOURNAL Patent: US 6114109-A 21 05-SEP-2000;
FEATURES
  Location/Qualifiers
  1..17
  /organism="unknown"
  /mol_type="unassigned DNA"

Query Match 42.7%; Score 12.8; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 16;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1490 AGCCAGACTTCAGCAGC 1506
DB 1 AGCCAGATTNGAGCAGC 17

RESULT 29
AR108984
LOCUS AR108984 17 bp DNA linear PAT 14-FEB-2001
DEFINITION Sequence 22 from patent US 6114109.
ACCESSION AR108984
VERSION AR108984.1 GI:12825260
KEYWORDS
SOURCE
ORGANISM
REFERENCE
  1 (bases 1 to 17)
  Unclassified.
AUTHORS Karn,J., Gait,M.J., Heaphy,S. and Dingwall,C.
TITLE Viral (HIV) growth inhibition
JOURNAL Patent: US 6114109-A 22 05-SEP-2000;
FEATURES
  Location/Qualifiers
  1..17
  /organism="unknown"
  /mol_type="unassigned DNA"

Query Match 42.7%; Score 12.8; DB 1; Length 17;
Best Local Similarity 82.4%; Pred. No. 16;
Matches 14; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY 1490 AGCCAGACTTCAGCAGC 1506
DB 1 AGCCAGATTNGAGCAGC 17

RESULT 30
BD209410/c
LOCUS BD209410/c 14 bp RNA linear PAT 17-JUL-2003
DEFINITION Enzymatic nucleic acid treatment of diseases or conditions related
  to hepatitis C virus infection.
ACCESSION BD209410
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VERSION      BD2009410.1  GI:33019180
KEYWORDS     JP 2002512791-A/3000.
SOURCE       unidentified
ORGANISM     unidentified
REFERENCE    1 (bases 1 to 14)
AUTHORS      Blatt,L., Mcswigen,J.A., Roberts,E., Pavco,P.A. and Macejak,D.
TITLE        Enzymatic nucleic acid treatment of diseases or conditions related
              to hepatitis C virus infection
JOURNAL      Patent: JP 2002512791-A 3000 08-MAY-2002;
              RIBOZYME PHARMACEUTICALS INC
              Hepatitis virus (hepatitis C virus)
              PN JP 2002512791-A/3000
              PD 08-MAY-2002
              PF 26-APR-1999 JP 2000545991
              PR 25-FEB-1999 US 60/083317,18-SEP-1998 US 60/100842 PR
              25-FEB-1999 US 09/257608,23-MAR-1999 US 09/274553 PI
              LAWRENCE BLATT,JAMES A MCSWIGGEN,ELISABETH ROBERTS,PAMELA A
              PAVCO,
              PI DENNIS MACEJAK
              PC C12N9/00,A61K31/7105,A61K38/21,A61K48/00,A61P31/12,C12N15/09,
              PC A61K37/06,
              PC C12N15/00
              CC Enzymatic nucleic acid treatment of diseases or conditions CC
              related to
              CC hepatitis C virus infection.
              FH Key Location/Qualifiers
              FT source 1..14
              FT virus)' /organism='Hepatitis virus (hepatitis C FT

FEATURES
source      Location/Qualifiers
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             /organism="unidentified"
             /mol_type="genomic RNA"
             /db_xref="taxon:32644"

Query Match      40.0%; Score 12; DB 1; Length 14;
Best Local Similarity 100.0%; Pred. No. 18;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1497 CTTGAGCAGCCA 1508
DB 12 CTTGAGCAGCCA 1

RESULT 31
LOCUS      A12791 15 bp DNA linear PAT 28-APR-1994
DEFINITION oligonucleotide from clone phd 119.
ACCESSION  A12791
VERSION    A12791.1 GI:512655
KEYWORDS   synthetic construct
SOURCE     synthetic construct
ORGANISM   synthetic construct
REFERENCE  1 (bases 1 to 15)
AUTHORS    artificial sequences.
TITLE      A DNA SEQUENCE
JOURNAL    Patent: WO 8605804-A 22 09-OCT-1986;
FEATURES   Location/Qualifiers
             1..15
             /organism="synthetic construct"
             /mol_type="unassigned DNA"
             /db_xref="taxon:32630"

Query Match      40.0%; Score 12; DB 1; Length 15;
Best Local Similarity 100.0%; Pred. No. 19;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1497 CTTGAGCAGCCA 1508
DB 15 CTTGAGCAGCCA 4

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RESULT 32	127893/c	15 bp	DNA	linear	PAT 06-FEB-1997
LOCUS	127893				
DEFINITION	Sequence 65 from patent US 5567809.				
ACCESSION	127893				
VERSION	127893.1				
KEYWORDS	GI:1818669				
SOURCE	Unknown.				
ORGANISM	Unknown.				
REFERENCE	Unclassified.				
AUTHORS	1 (bases 1 to 15)				
JOURNAL	Apple,R.J., Erlich,H.A., Griffith,R.L. and Scharf,S.J.				
FEATURES	Methods and reagents for HLA DRbeta DNA typing				
source	Patent: US 5567809-A 65 22-OCT-1996;				
	Location/Qualifiers				
	1..15				
	/organism="unknown"				
	/mol_type="unassigned DNA"				
Query Match	38.0%; Score 11.4; DB 1; Length 15;				
Best Local Similarity	92.3%; Pred. No. 24;				
Matches	12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;				
OY	1494 AGACTTCAGCAGC 1506				
Db	15 AGACTTAAGCAGC 3				
RESULT 33					
LOCUS	A89566	14 bp	DNA	linear	PAT 22-JAN-2000
DEFINITION	Sequence 1714 from Patent WO9833904.				
ACCESSION	A89566				
VERSION	A89566.1				
KEYWORDS	GI:6738136				
SOURCE	unidentified				
ORGANISM	unidentified				
REFERENCE	unclassified.				
AUTHORS	1 (bases 1 to 14)				
TITLE	Brysch,W. and Schlingensiefen,K.				
JOURNAL	AN ANTISENSE OLIGONUCLEOTIDE PREPARATION METHOD				
	Patent: WO 9833904-A 1714 06-AUG-1998;				
	BIOHOSTIK GBS (DE); BRYSCH WOLFGANG (DE)				
FEATURES	Location/Qualifiers				
source	1..14				
	/organism="unidentified"				
	/mol_type="unassigned DNA"				
	/dt_xref="taxon:32644"				
Query Match	36.7%; Score 11; DB 1; Length 14;				
Best Local Similarity	100.0%; Pred. No. 26;				
Matches	11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;				
OY	1498 TTCAGCAGCCA 1508				
Db	2 TTCAGCAGCCA 12				
RESULT 34					
LOCUS	A89567	14 bp	DNA	linear	PAT 22-JAN-2000
DEFINITION	Sequence 1715 from Patent WO9833904.				
ACCESSION	A89567				
VERSION	A89567.1				
KEYWORDS	GI:6738137				
SOURCE	unidentified				
ORGANISM	unidentified				
REFERENCE	unclassified.				
AUTHORS	1 (bases 1 to 14)				
TITLE	Brysch,W. and Schlingensiefen,K.				
JOURNAL	AN ANTISENSE OLIGONUCLEOTIDE PREPARATION METHOD				
	Patent: WO 9833904-A 1715 06-AUG-1998;				

FEATURES BIOGNOSTIK GES (DE); BRYSCH WOLFGANG (DE)
 source Location/Qualifiers
 1. .14
 /organism="unidentified"
 /mol_type="unassigned DNA"
 /db_xref="taxon:32644"

Query Match 36.7%; Score 11; DB 1; Length 14;
 Best Local Similarity 100.0%; Pred. No. 26;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1498 TTCAGCAGCCA 1508
 Db 4 TTCAGCAGCCA 14
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RESULT 35
 BD067079 14 bp DNA linear PAT 27-AUG-2002
 LOCUS An antisense oligonucleotide preparation method.
 DEFINITION BD067079
 ACCESSION BD067079.1 GI:22612682
 VERSION JP 2001511000-A/1714.
 KEYWORDS unidentified
 SOURCE unidentified
 ORGANISM unclassified.

REFERENCE 1 (bases 1 to 14)
 AUTHORS Schlingensiepen,K.H. and Brysch,W.
 TITLE An antisense oligonucleotide preparation method
 JOURNAL Patent: JP 2001511000-A 1714 07-AUG-2001;
 BIOGNOSTIK GESELLSCHAFT FUR BIOMOLEKULARE DIAGNOSTIK MBH
 COMMENT OS Unknown
 PN JP 2001511000-A/1714
 PD 07-AUG-2001
 PF 30-JAN-1998 JP 1998532533
 PR 31-JAN-1997 EP 97101531.8
 PI KARL HERMANN SCHLINGENSIEPEN,WOLFGANG BRYSCH
 PC C12N15/11,C07H21/04,A61K31/70
 CC An antisense oligonucleotide preparation method FH Key
 LOCATION/Qualifiers
 FT source 1. .14
 /organism='Unknown',
 Location/Qualifiers
 1. .14
 /organism="unidentified"
 /mol_type="genomic DNA"
 /db_xref="taxon:32644"

FEATURES source
 1. .14
 /organism="unidentified"
 /mol_type="genomic DNA"
 /db_xref="taxon:32644"

Query Match 36.7%; Score 11; DB 1; Length 14;
 Best Local Similarity 100.0%; Pred. No. 26;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1498 TTCAGCAGCCA 1508
 Db 2 TTCAGCAGCCA 12
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 |||||

RESULT 36
 BD067080 14 bp DNA linear PAT 27-AUG-2002
 LOCUS An antisense oligonucleotide preparation method.
 DEFINITION BD067080
 ACCESSION BD067080.1 GI:22612683
 VERSION JP 2001511000-A/1715.
 KEYWORDS unidentified
 SOURCE unidentified
 ORGANISM unclassified.

REFERENCE 1 (bases 1 to 14)
 AUTHORS Schlingensiepen,K.H. and Brysch,W.
 TITLE An antisense oligonucleotide preparation method
 JOURNAL Patent: JP 2001511000-A 1715 07-AUG-2001;
 BIOGNOSTIK GESELLSCHAFT FUR BIOMOLEKULARE DIAGNOSTIK MBH
 COMMENT OS Unknown

PN JP 2001511000-A/1715
 PD 07-AUG-2001
 PF 30-JAN-1998 JP 1998532533
 PR 31-JAN-1997 EP 97101531.8
 PI KARL HERMANN SCHLINGENSIEPEN,WOLFGANG BRYSCH
 PC C12N15/11,C07H21/04,A61K31/70
 CC An antisense oligonucleotide preparation method FH Key
 LOCATION/Qualifiers
 FT source 1. .14
 /organism='Unknown',
 Location/Qualifiers
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 /organism="unidentified"
 /mol_type="genomic DNA"
 /db_xref="taxon:32644"

FEATURES source
 1. .14
 /organism="unidentified"
 /mol_type="genomic DNA"
 /db_xref="taxon:32644"

Query Match 36.7%; Score 11; DB 1; Length 14;
 Best Local Similarity 100.0%; Pred. No. 26;
 Matches 11; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1498 TTCAGCAGCCA 1508
 Db 4 TTCAGCAGCCA 14
 |||||
 |||||

RESULT 37
 BD209394 14 bp RNA linear PAT 17-JUL-2003
 LOCUS Enzymatic nucleic acid treatment of diseases or conditions related
 DEFINITION to hepatitis C virus infection.
 ACCESSION BD209394
 VERSION BD209394.1 GI:33019164
 KEYWORDS JP 2002512791-A/2984.
 SOURCE unidentified
 ORGANISM unclassified.

REFERENCE 1 (bases 1 to 14)
 AUTHORS Blatt,L., McSwiggen,J.A., Roberts,E., Pavco,P.A. and Macejak,D.
 TITLE Enzymatic nucleic acid treatment of diseases or conditions related
 JOURNAL to hepatitis C virus infection
 RIBOZYME PHARMACEUTICALS INC
 PATENT: JP 2002512791-A 2984 08-MAY-2002;
 COMMENT OS Hepatitis virus (hepatitis C virus)
 PN JP 2002512791-A/2984
 PD 08-MAY-2002
 PF 26-APR-1999 JP 2000545991
 PR 27-APR-1998 US 60/083217,18-SEP-1998 US 60/100842 PR
 25-FEB-1999 US 09/257608,23-MAR-1999 US 09/274553 PI
 LAWRENCE BLATT,JAMES A MCSWIGGEN,ELISABETH ROBERTS,PAMELA A PI
 PAVCO,
 PI DENNIS MACEJAK
 PC C12N9/00,A61K31/7105,A61K38/21,A61K48/00,A61P31/12,C12N15/09,
 PC A61K37/66,
 PC C12N15/00
 CC Enzymatic nucleic acid treatment of diseases or conditions CC
 related to
 CC hepatitis C virus infection.
 FH Key Location/Qualifiers
 FT source 1. .14
 /organism="Hepatitis virus (hepatitis C FT
 virus)",
 Location/Qualifiers
 1. .14
 /organism="unidentified"
 /mol_type="genomic RNA"
 /db_xref="taxon:32644"

FEATURES source
 1. .14
 /organism="unidentified"
 /mol_type="genomic RNA"
 /db_xref="taxon:32644"

Query Match 36.0%; Score 10.8; DB 1; Length 14;
 Best Local Similarity 85.7%; Pred. No. 28;
 Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1495 GACTTCAGCAGCCA 1508
 |||||
 |||||

Db 14 GAGTTAGCAGCCA 1

RESULT 38
BD239909

LOCUS BD239909 10 bp DNA linear PAT 17-JUL-2003

DEFINITION Preparation and use of superior vaccines.

ACCESSION BD239909

VERSION BD239909.1 GI:33049679

KEYWORDS JP 2002534056-A/1327.

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo. 1 (bases 1 to 10)

AUTHORS Roberts,B.L. and Shankara,S.

TITLE Preparation and use of superior vaccines

JOURNAL Patent: JP 2002534056-A 1327 15-OCT-2002;

COMMENT GENZYME CORP

OS Homo sapiens (human)

PN JP 2002534056-A/1327

PD 15-OCT-2002

PR 18-JUN-1999 JP 2000554749

PR 19-JUN-1998 US 60/090039,19-JUN-1998 US 60/090040 PR

19-JUN-1998 US 60/090041,19-JUN-1998 US 60/089853 PR

19-JUN-1998 US 60/089997,19-JUN-1998 US 60/090079 PR

19-JUN-1998 US 60/090035,19-JUN-1998 US 60/089993 PR

19-JUN-1998 US 60/089992,19-JUN-1998 US 60/090072 PR

19-JUN-1998 US 60/089878,19-JUN-1998 US 60/089991 PR

19-JUN-1998 US 60/090000,19-JUN-1998 US 60/090048 PR

19-JUN-1998 US 60/089999,19-JUN-1998 US 60/090043 PR

19-JUN-1998 US 60/090042,19-JUN-1998 US 60/090036 PR

19-JUN-1998 US 60/090044,19-JUN-1998 US 60/089844 PR

19-JUN-1998 US 60/090080,19-JUN-1998 US 60/089833 PR

19-JUN-1998 US 60/089994,19-JUN-1998 US 60/090077 PR

19-JUN-1998 US 60/090078,19-JUN-1998 US 60/090047 PR

19-JUN-1998 US 60/090076,19-JUN-1998 US 60/090045 PR

08-DEC-1998 US 60/111715

PI BRUCE L ROBERTS,SRINIVAS SHANKARA

PC C12N15/09,C12N15/09,A61K9/00,A61P35/00,A61P37/04,C12N1/45, PC C12N1/19,

PC C12N1/21,C12N5/10,G01N33/15,G01N33/50,G01N33/53,G01N33/566, PC G01N37/00,

PC C12N15/00,C12N5/00,C12N15/00

CC Preparation and use of superior vaccines

PH Key Location/Qualifiers

FT source 1..10

FT Location/Qualifiers

1..10 /organism="Homo sapiens (human)"

1..10 /organism="Homo sapiens"

/mol_type="genomic DNA"

/db_xref="taxon:9606"

Query Match 33.3%; Score 10; DB 1; Length 10;

Best Local Similarity 100.0%; Pred. No. 29;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1487 AGAAGCCAGA 1496

DB 1 AGAAGCCAGA 10

RESULT 39

LOCUS A71513 12 bp DNA linear PAT 07-MAY-1999

DEFINITION Sequence 72 from Patent WO9813521.

ACCESSION A71513

VERSION A71513.1 GI:4775125

KEYWORDS

SOURCE unidentified

ORGANISM unclassified.

REFERENCE 1 (bases 1 to 12)

AUTHORS Fesce,R. and Consales,G.

TITLE METHOD FOR THE DIFFERENTIAL SCREENING OF GENE EXPRESSION BY RANDOM PRIMED REVERSE TRANSCRIPTION-POLYMERASE CHAIN REACTION

JOURNAL Patent: NO 9813521-A 72 02-APR-1998;

FEATURES FESCE RICCARDO (IT)

source Location/Qualifiers

1..12 /organism="unidentified"

/mol_type="unassigned DNA"

/db_xref="taxon:32644"

Query Match 33.3%; Score 10; DB 1; Length 12;

Best Local Similarity 100.0%; Pred. No. 33;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1479 CACGACCAAG 1488

DB 10 CACGACCAAG 1

RESULT 40

LOCUS AX003113 13 bp DNA linear PAT 24-AUG-2000

DEFINITION Sequence 15 from Patent WO9934217.

ACCESSION AX003113

VERSION AX003113.1 GI:9926975

KEYWORDS

SOURCE synthetic construct

ORGANISM synthetic construct

REFERENCE 1

AUTHORS Xu,D. and Liew,F.Y.

TITLE Reagents specific for st21 and uses therefor

JOURNAL Patent: WO 9934217-A 15 08-JUL-1999;

XU DAMO (GB); LIEW FOY YEM (GB)

FEATURES Location/Qualifiers

source 1..13

/organism="synthetic construct"

/mol_type="unassigned DNA"

/db_xref="taxon:32630"

/note="PRIMER"

Query Match 33.3%; Score 10; DB 1; Length 13;

Best Local Similarity 100.0%; Pred. No. 35;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1497 CTTGACGAGC 1506

DB 4 CTTGACGAGC 13

RESULT 41

LOCUS AX623670 11 bp DNA linear PAT 21-FEB-2003

DEFINITION Sequence 711 from Patent WO02053774.

ACCESSION AX623670

VERSION AX623670.1 GI:28451611

KEYWORDS

SOURCE Homo sapiens (human)

ORGANISM Homo sapiens

REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo. 1

AUTHORS Petersohn,D., Conrady,M. and Hofmann,K.

TITLE Method for determining homeostasis of the skin

JOURNAL Patent: WO 02053774-A 711 11-JUL-2002; (DE)

Henkel Kommanditgesellschaft auf Aktien (DE)

FEATURES Location/Qualifiers

source 1..11

/organism="Homo sapiens"

/mol_type="unassigned DNA"

/db_xref="taxon:9606"

Query Match 31.3%; Score 9.4; DB 1; Length 11;
 Best Local Similarity 90.9%; Pred. No. 39;
 Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1495 GACTTCAGCAG 1505
 Db 11 GACTACAGCAG 1

RESULT 42
 LOCUS AX629388/c 11 bp DNA linear PAT 21-FEB-2003
 DEFINITION Sequence 6429 from Patent WO2053774.
 ACCESSION AX629388
 VERSION AX629388.1 GI:28457426
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
 AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
 TITLE Method for determining homeostasis of the skin
 JOURNAL Patent: WO 02053774-A 6429 11-JUL-2002;
 Henkel Kommanditgesellschaft auf Aktien (DE)
 FEATURES Location/Qualifiers
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 /mol_type="unassigned DNA"
 /db_xref="taxon:9606"

Query Match 31.3%; Score 9.4; DB 1; Length 11;
 Best Local Similarity 90.9%; Pred. No. 39;
 Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1489 AAGCCAGACTT 1499
 Db 11 AAGCCAGCTT 1

RESULT 43
 LOCUS AX629909 11 bp DNA linear PAT 21-FEB-2003
 DEFINITION Sequence 6950 from Patent WO2053774.
 ACCESSION AX629909
 VERSION AX629909.1 GI:28457947
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
 AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
 TITLE Method for determining homeostasis of the skin
 JOURNAL Patent: WO 02053774-A 6950 11-JUL-2002;
 Henkel Kommanditgesellschaft auf Aktien (DE)
 FEATURES Location/Qualifiers
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 /mol_type="unassigned DNA"
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Query Match 31.3%; Score 9.4; DB 1; Length 11;
 Best Local Similarity 90.9%; Pred. No. 39;
 Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1486 AAGAAGCCAGA 1496
 Db 1 AAGAAGCAGA 11

RESULT 44

AX630102/c
 LOCUS AX630102 11 bp DNA linear PAT 21-FEB-2003
 DEFINITION Sequence 7143 from Patent WO2053774.
 ACCESSION AX630102
 VERSION AX630102.1 GI:28458140
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
 AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
 TITLE Method for determining homeostasis of the skin
 JOURNAL Patent: WO 02053774-A 7143 11-JUL-2002;
 Henkel Kommanditgesellschaft auf Aktien (DE)
 FEATURES Location/Qualifiers
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 /mol_type="unassigned DNA"
 /db_xref="taxon:9606"

Query Match 31.3%; Score 9.4; DB 1; Length 11;
 Best Local Similarity 90.9%; Pred. No. 39;
 Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1485 CAAGAAGCCAG 1495
 Db 11 CAAGAAGCAG 1

RESULT 45
 LOCUS AX631091/c 11 bp DNA linear PAT 21-FEB-2003
 DEFINITION Sequence 8132 from Patent WO2053774.
 ACCESSION AX631091
 VERSION AX631091.1 GI:28459135
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
 AUTHORS Petersohn,D., Conradt,M. and Hofmann,K.
 TITLE Method for determining homeostasis of the skin
 JOURNAL Patent: WO 02053774-A 8132 11-JUL-2002;
 Henkel Kommanditgesellschaft auf Aktien (DE)
 FEATURES Location/Qualifiers
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 /mol_type="unassigned DNA"
 /db_xref="taxon:9606"

Query Match 31.3%; Score 9.4; DB 1; Length 11;
 Best Local Similarity 90.9%; Pred. No. 39;
 Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1495 GACTTCAGCAG 1505
 Db 11 GACTACAGCAG 1

RESULT 46
 LOCUS AR167701/c 12 bp DNA linear PAT 17-DEC-2001
 DEFINITION Sequence 65 from patent US 6287769.
 ACCESSION AR167701
 VERSION AR167701.1 GI:17903498
 KEYWORDS
 SOURCE Unknown.
 ORGANISM Unclassified.
 REFERENCE 1 (bases 1 to 12)
 AUTHORS Inoue,T.

TITLE Method of amplifying DNA fragment, apparatus for amplifying DNA fragment, method of assaying microorganisms, method of analyzing microorganisms and method of assaying contaminant

JOURNAL Patent: US 6287769-A 65 11-SEP-2001;

FEATURES
source
1. .12 Location/Qualifiers
/mol_type="unknown"
/db_xref="taxon:32644"

Query Match 31.3%; Score 9.4; DB 1; Length 12;
Best Local Similarity 90.9%; Pred. No. 41;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1484 CCAAGAGGCCA 1494
Db 11 CCAAGAGGCCA 1

RESULT 47
E29585/c
LOCUS E29585 12 bp DNA linear PAT 18-JUN-2001
DEFINITION microorganism existing and method for estimating state of waste.
ACCESSION E29585.1 GI:13021088
VERSION JP 199276176-A/65.
KEYWORDS unidentified
SOURCE unidentified
ORGANISM unclassified.

REFERENCE
AUTHORS Koichi, I.
TITLE Method for amplifying DNA fragment, method for estimating state of microorganism existing and method for estimating state of waste
JOURNAL SANYO ELECTRIC CO LTD, SOCIETY FOR TECHNO-INNOVATION OF AGRICULTURE FORESTRY AND FISHERIES
COMMENT OS Unidentified
PN JP 199276176-A/65
PD 12-OCT-1999
PF 31-MAR-1998 JP 1998087652
PR
PI KOICHI INOUE
PC C12N15/09, B09B3/00, C12Q1/00, C12Q1/68, C12N15/00, B09B3/00 CC
FH Key
FT source
FT 1. .12 Location/Qualifiers
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1. .12 Location/Qualifiers
/organism='Unidentified'
/mol_type="genomic DNA"
/db_xref="taxon:32644"

FEATURES
source
1. .12 Location/Qualifiers
/organism='Unidentified'.
/mol_type="genomic DNA"
/db_xref="taxon:32644"

Query Match 31.3%; Score 9.4; DB 1; Length 12;
Best Local Similarity 90.9%; Pred. No. 41;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1484 CCAAGAGGCCA 1494
Db 11 CCAAGAGGCCA 1

RESULT 48
E38691/c
LOCUS E38691 12 bp DNA linear PAT 31-JAN-2002
DEFINITION Method and device for amplifying DNA fragment.
ACCESSION E38691.1 GI:18621353
VERSION JP 2000270867-A/65.
KEYWORDS unidentified
SOURCE unidentified
ORGANISM unclassified.

REFERENCE
1 (bases 1 to 12)

AUTHORS Inoue, K.
TITLE Method and device for amplifying DNA fragment
JOURNAL Patent: JP 2000270867-A 65 03-OCT-2000;
SANYO ELECTRIC CO LTD, SOCIETY FOR TECHNO-INNOVATION OF AGRICULTURE FORESTRY AND FISHERIES
COMMENT OS Unidentified
PN JP 2000270867-A/65
PD 03-OCT-2000
PF 19-MAR-1999 JP 1999076844
PR
PI KOICHI INOUE
PC C12N15/09, C12M1/00, C12Q1/68, C12N15/00
CC Strandedness: Single;
CC Topology: Linear;
FH Key
FT source
FT 1. .12 Location/Qualifiers
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1. .12 Location/Qualifiers
/organism='Unidentified'
/mol_type="genomic DNA"
/db_xref="taxon:32644"

FEATURES
source
1. .12 Location/Qualifiers
/organism='Unidentified'.
/mol_type="genomic DNA"
/db_xref="taxon:32644"

Query Match 31.3%; Score 9.4; DB 1; Length 12;
Best Local Similarity 90.9%; Pred. No. 41;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1484 CCAAGAGGCCA 1494
Db 11 CCAAGAGGCCA 1

RESULT 49
E64117/c
LOCUS E64117 12 bp DNA linear PAT 18-JUN-2001
DEFINITION Method for amplifying DNA fragment, amplification apparatus of DNA fragment, method for assaying a group of microorganisms, method for analyzing a group of microorganisms, and method for assaying contaminating substance.
ACCESSION E64117
VERSION E64117.1 GI:13019521
KEYWORDS JP 199341989-A/65.
SOURCE synthetic construct
ORGANISM synthetic construct
artificial sequences.
REFERENCE 1 (bases 1 to 12)
AUTHORS Koichi, I.
TITLE Method for amplifying DNA fragment, amplification apparatus of DNA fragment, method for assaying a group of microorganisms, method for analyzing a group of microorganisms, and method for assaying contaminating substance
JOURNAL SANYO ELECTRIC CO LTD, SOCIETY FOR TECHNO-INNOVATION OF AGRICULTURE FORESTRY AND FISHERIES
COMMENT OS Artificial Sequence
PN JP 199341989-A/65
PD 14-DEC-1999
PF 16-MAR-1999 JP 1999069694
PR
PI KOICHI INOUE
PC C12N15/09, C12M1/00, C12Q1/68, C12N15/00
CC
FH Key
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/mol_type="genomic DNA"
/db_xref="taxon:32630"

FEATURES
source
1. .12 Location/Qualifiers
/organism='Artificial Sequence'.
/mol_type="genomic DNA"
/db_xref="taxon:32630"

Query Match 31.3%; Score 9.4; DB 1; Length 12;
Best Local Similarity 90.9%; Pred. No. 41;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1484 CCAAGAGCCA 1494
|||||
11 CCAAGAGCCA 1

Db 11 CCAAGAGCCA 1

RESULT 50
BD061483/C
LOCUS
DEFINITION

BD061483 12 bp DNA linear PAT 27-AUG-2002
Method for discriminating microorganisms, apparatus for discriminating microorganisms, method for preparing data base for discriminating microorganisms, and recording medium recorded with program for discriminating microorganisms.

ACCESSION BD061483
VERSION BD061483.1 GI:22607089
KEYWORDS JP 2001275700-A/10.
SOURCE synthetic construct
ORGANISM synthetic construct
ARTIFICIAL SEQUENCES.
REFERENCE 1 (bases 1 to 12)

AUTHORS Inoue,K.
TITLE Method for discriminating microorganisms, apparatus for discriminating microorganisms, method for preparing data base for discriminating microorganisms, and recording medium recorded with program for discriminating microorganisms

JOURNAL SANYO ELECTRIC CO LTD, SOCIETY FOR TECHNO-INNOVATION OF AGRICULTURE
FORESTRY AND FISHERIES
OS Artificial Sequence
PN JP 2001275700-A/10
PD 09-OCT-2001
PF 31-MAR-2000 JP 2000099482
PI KOICHI INOUE
PC C12Q1/68,C12M1/00,C12M1/34,C12N15/09,G06F17/30,C12N15/00 CC
Primer
FH Key Location/Qualifiers.
FT source 1..12
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/mol_type="genomic DNA"
/db_xref="taxon:32630"

Query Match 31.3%; Score 9.4; DB 1; Length 12;
Best Local Similarity 90.9%; Pred. No. 41;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1484 CCAAGAGCCA 1494
|||||
11 CCAAGAGCCA 1

Db 11 CCAAGAGCCA 1

RESULT 51
BD101930/C
LOCUS
DEFINITION

BD101930 12 bp DNA linear PAT 27-AUG-2002
Method of discriminating microorganisms, apparatus for discriminating microorganisms, method of making database for discriminating microorganisms, microorganisms discriminating program and record medium for recording the same.

ACCESSION BD101930
VERSION BD101930.1 GI:22647504
KEYWORDS WO 0175156-A/10.
SOURCE synthetic construct
ORGANISM synthetic construct
ARTIFICIAL SEQUENCES.
REFERENCE 1 (bases 1 to 12)

AUTHORS Inoue,T.
TITLE Method of discriminating microorganisms, apparatus for discriminating microorganisms, method of making database for discriminating microorganisms, microorganisms discriminating program and record medium for recording the same

JOURNAL SANYO ELECTRIC CO LTD, SOCIETY FOR TECHNO INNOVATION OF AGRICULTURE

COMMENT FORESTRY AND FISHERIES, TAKAKAZU INOUE
OS Artificial Sequence
PN WO 0175156-A/10
PD 11-OCT-2001
PF 27-MAR-2001 WO 2001JP002516
PR 31-MAR-2000 JP 00P 099482
PI TAKAKAZU INOUE
PC C12Q1/68,C12N15/10,G01N33/48,G01N27/447,G06F17/30,C12M1/00 CC
Primer
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FT source 1..12
/organism='Artificial Sequence'.
FT Location/Qualifiers
1..12
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/db_xref="taxon:32630"

Query Match 31.3%; Score 9.4; DB 1; Length 12;
Best Local Similarity 90.9%; Pred. No. 41;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1484 CCAAGAGCCA 1494
|||||
11 CCAAGAGCCA 1

Db 11 CCAAGAGCCA 1

RESULT 52
BD240229/C
LOCUS
DEFINITION

BD240229 10 bp DNA linear PAT 17-JUL-2003
Preparation and use of superior vaccines.

ACCESSION BD240229
VERSION BD240229.1 GI:33049999
KEYWORDS JP 2002534056-A/1647.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Bukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
1 (bases 1 to 10)
REFERENCE 1
AUTHORS Roberts,B.L. and Shankara,S.
TITLE Preparation and use of superior vaccines
JOURNAL Patent: JP 2002534056-A 1647 15-OCT-2002;
GENZYME CORP

COMMENT OS Homo sapiens (human)
PN JP 2002534056-A/1647
PD 15-OCT-2002
PF 18-JUN-1999 JP 2000554749
PR 19-JUN-1998 US 60/090041,19-JUN-1998 US 60/089853 PR
19-JUN-1998 US 60/089997,19-JUN-1998 US 60/090079 PR
19-JUN-1998 US 60/090035,19-JUN-1998 US 60/089993 PR
19-JUN-1998 US 60/089992,19-JUN-1998 US 60/090072 PR
19-JUN-1998 US 60/089878,19-JUN-1998 US 60/089991 PR
19-JUN-1998 US 60/090000,19-JUN-1998 US 60/090048 PR
19-JUN-1998 US 60/089999,19-JUN-1998 US 60/090063 PR
19-JUN-1998 US 60/090042,19-JUN-1998 US 60/090064 PR
19-JUN-1998 US 60/090044,19-JUN-1998 US 60/089884 PR
19-JUN-1998 US 60/090080,19-JUN-1998 US 60/089893 PR
19-JUN-1998 US 60/089994,19-JUN-1998 US 60/090077 PR
19-JUN-1998 US 60/090078,19-JUN-1998 US 60/090047 PR
08-DEC-1998 US 60/111715
PI BRUCE L.ROBERTS,SRINIVAS SHANKARA
PC C12N1/09,C12N15/09,A61K39/00,A61P35/00,A61P37/04,C12N1/15,PC
C12N1/19,
G01N37/00,
PC C12N15/00,C12N5/00,C12N15/00
CC Preparation and use of superior vaccines
FH Key Location/Qualifiers
FT source 1..10
/organism='Homo sapiens (human)'.
FT Location/Qualifiers

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source
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/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"

Query Match
Best Local Similarity 30.0%; Score 9; DB 1; Length 10;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1500 CAGCAGCCA 1508
Db 10 CAGCAGCCA 2

RESULT 53
BD248497 10 bp DNA linear PAT 17-JUL-2003
LOCUS T cells specific for target antigens and methods and vaccines based
DEFINITION thereon.
ACCESSION BD248497.1 GI:33058267
VERSION BD248497.1
KEYWORDS JP 2002529082-A/11.
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1 (bases 1 to 10)
AUTHORS Zauderer,M.
TITLE T cells specific for target antigens and methods and vaccines based
JOURNAL Patent: JP 2002529082-A 11 10-SEP-2002;
COMMENT UNIVERSITY OF ROCHESTER
OS Artificial Sequence
PN JP 2002529082-A/11
PD 10-SEP-2002
PF 10-NOV-1998 JP 2000581183
PI MAURICE ZAUDERER
PC C12N15/09,A01K67/027,A61K35/76,A61K39/00,A61K39/04,A61K39/12,
PC A61K39/395
PC A61K39/395,A61P31/04,A61P31/10,A61P31/12,A61P35/00,C12N5/10,
PC C1201/02,
PC G01N33/574,C12N15/00,C12N5/10
CC MR7
FH key
FT source
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source
1. .10
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/organism="synthetic construct"
/mol_type="genomic DNA"
/db_xref="taxon:32630"

Query Match
Best Local Similarity 30.0%; Score 9; DB 1; Length 10;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1493 CAGACTTCA 1501
Db 2 CAGACTTCA 10

RESULT 54
AR303300 10 bp DNA linear PAT 12-JUN-2003
LOCUS Sequence 25 from patent US 6544736.
DEFINITION AR303300
ACCESSION AR303300
VERSION AR303300.1 GI:31692076
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 10)
AUTHORS Shimamoto,A., Furuchi,Y., Shibata,Y., Funaki,H., Ohara,E. and
Watanishi,M.

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```

TITLE Method for synthesizing cDNA from mRNA sample
JOURNAL Patent: US 6544736-A 25 08-APR-2003;
FEATURES
source
1. .10
Location/Qualifiers
/mol_type="genomic DNA"

Query Match
Best Local Similarity 30.0%; Score 9; DB 1; Length 10;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1497 CTTCAGCAG 1505
Db 10 CTTCAGCAG 2

RESULT 55
AX510716 10 bp DNA linear PAT 27-SEP-2002
LOCUS Sequence 4 from Patent WO0227027.
DEFINITION AX510716
ACCESSION AX510716
VERSION AX510716.1 GI:23391953
KEYWORDS
SOURCE synthetic construct
ORGANISM synthetic construct
REFERENCE 1
AUTHORS Zauderer,M.
TITLE Method of screening for therapeutics for infectious diseases
JOURNAL Patent: WO 0227027-A 4 04-APR-2002;
COMMENT THE UNIVERSITY OF ROCHESTER (US)
FEATURES
source
1. .10
Location/Qualifiers
/organism="synthetic construct"
/mol_type="unassigned DNA"
/db_xref="taxon:32630"
/note="Oligonucleotide primer"

Query Match
Best Local Similarity 30.0%; Score 9; DB 1; Length 10;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1493 CAGACTTCA 1501
Db 2 CAGACTTCA 10

RESULT 56
AX471386 11 bp DNA linear PAT 09-AUG-2002
LOCUS Sequence 963 from Patent WO02053773.
DEFINITION AX471386
ACCESSION AX471386
VERSION AX471386.1 GI:22206511
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Hofmann,K., Conradt,M. and Petersohn,D.
TITLE Method for determining skin stress or skin ageing in vitro
JOURNAL Patent: WO 02053773-A 963 11-JUL-2002;
COMMENT HENKEL KGAA (DE)
FEATURES
source
1. .11
Location/Qualifiers
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match
Best Local Similarity 30.0%; Score 9; DB 1; Length 11;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

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Qy      1490 AGCCAGACT 1498
Db      11 AGCCAGACT 3

RESULT 57
LOCUS   AX625231/c
DEFINITION Sequence 2272 from Patent WO02053774.
ACCESSION AX625231
VERSION  AX625231.1 GI:28453172
KEYWORDS
SOURCE  Homo sapiens (human)
ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
AUTHORS  Petersohn, D., Conradt, M. and Hofmann, K.
TITLE    Method for determining homeostasis of the skin
JOURNAL  Patent: WO 02053774-A 2272 11-JUL-2002;
          Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
source   1..11
          /organism="Homo sapiens"
          /mol_type="unassigned DNA"
          /db_xref="taxon:9606"

Query Match      30.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 44;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1490 AGCCAGACT 1498
Db      11 AGCCAGACT 3

RESULT 58
LOCUS   AX626985
DEFINITION Sequence 4026 from Patent WO02053774.
ACCESSION AX626985
VERSION  AX626985.1 GI:28455023
KEYWORDS
SOURCE  Homo sapiens (human)
ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
AUTHORS  Petersohn, D., Conradt, M. and Hofmann, K.
TITLE    Method for determining homeostasis of the skin
JOURNAL  Patent: WO 02053774-A 4026 11-JUL-2002;
          Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
source   1..11
          /organism="Homo sapiens"
          /mol_type="unassigned DNA"
          /db_xref="taxon:9606"

Query Match      30.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 44;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1498 TTCAGCAGC 1506
Db      1 TTCAGCAGC 9

RESULT 59
LOCUS   AX628452/c
DEFINITION Sequence 5493 from Patent WO02053774.
ACCESSION AX628452
VERSION  AX628452.1 GI:28456490

```

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KEYWORDS
SOURCE  Homo sapiens (human)
ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
AUTHORS  Petersohn, D., Conradt, M. and Hofmann, K.
TITLE    Method for determining homeostasis of the skin
JOURNAL  Patent: WO 02053774-A 5493 11-JUL-2002;
          Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
source   1..11
          /organism="Homo sapiens"
          /mol_type="unassigned DNA"
          /db_xref="taxon:9606"

Query Match      30.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 44;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1500 CAGCAGCCA 1508
Db      11 CAGCAGCCA 3

RESULT 60
LOCUS   AX630058/c
DEFINITION Sequence 7099 from Patent WO02053774.
ACCESSION AX630058
VERSION  AX630058.1 GI:28458096
KEYWORDS
SOURCE  Homo sapiens (human)
ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
AUTHORS  Petersohn, D., Conradt, M. and Hofmann, K.
TITLE    Method for determining homeostasis of the skin
JOURNAL  Patent: WO 02053774-A 7099 11-JUL-2002;
          Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
source   1..11
          /organism="Homo sapiens"
          /mol_type="unassigned DNA"
          /db_xref="taxon:9606"

Query Match      30.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 44;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy      1500 CAGCAGCCA 1508
Db      10 CAGCAGCCA 2

RESULT 61
LOCUS   AX632652/c
DEFINITION Sequence 9694 from Patent WO02053774.
ACCESSION AX632652
VERSION  AX632652.1 GI:28468267
KEYWORDS
SOURCE  Homo sapiens (human)
ORGANISM
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
AUTHORS  Petersohn, D., Conradt, M. and Hofmann, K.
TITLE    Method for determining homeostasis of the skin
JOURNAL  Patent: WO 02053774-A 9694 11-JUL-2002;
          Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
Location/Qualifiers

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source 1.11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 30.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 44;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1490 AGCCAGACT 1498
11 AGCCAGACT 3

RESULT 62
AR070986 10 bp DNA linear PAT 18-FEB-2000
LOCUS Sequence 20 from patent US 5908978.
ACCESSION AR070986
VERSION AR070986.1 GI:7221874
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.

REFERENCE 1 (bases 1 to 10)
AUTHORS Amereson,H.V., Wilcox,P., Sederoff,R.R., Kuhlman,E.George.,
O'Malley,D.M., and Grattapaglia,D.
TITLE Methods for within family selection of disease resistance in woody
perennials using genetic markers
JOURNAL Patent: US 5908978-A 20 01-JUN-1999;
FEATURES
source 1.10
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 51;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1488 GAAGCCAGAC 1497
1 GAAGCCAGAC 10

RESULT 63
AR161933 10 bp DNA linear PAT 17-OCT-2001
LOCUS Sequence 6 from patent US 6258537.
ACCESSION AR161933
VERSION AR161933.1 GI:16228965
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 10)
AUTHORS Keinath,A.P., Somai,B.M. and Dean,R.A.
TITLE Method of diagnosing gummy stem blight in plants using a polymerase
chain reaction assay
JOURNAL Patent: US 6258537-A 6 10-JUL-2001;
FEATURES
source 1.10
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 51;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1488 GAAGCCAGAC 1497
1 GATGCCAGAC 10

RESULT 64
BD240233 10 bp DNA linear PAT 17-JUL-2003
LOCUS Preparation and use of superior vaccines.
DEFINITION BD240233
ACCESSION BD240233.1 GI:33050003
VERSION JP 2002534056-A/1651.
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 10)
AUTHORS Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.
TITLE Roberts,B.L. and Shankara,S.
JOURNAL Preparation and use of superior vaccines
PATENT: JP 2002534056-A 1651 15-OCT-2002;
GENZYME CORP

OS Homo sapiens (human)
PN JP 2002534056-A/1651
PD 15-OCT-2002
PP 18-JUN-1998 JP 2000554749
PR 19-JUN-1998 US 60/090039,19-JUN-1998 US 60/090040 PR
19-JUN-1998 US 60/090041,19-JUN-1998 US 60/089853 PR
19-JUN-1998 US 60/089997,19-JUN-1998 US 60/090079 PR
19-JUN-1998 US 60/090035,19-JUN-1998 US 60/089993 PR
19-JUN-1998 US 60/089992,19-JUN-1998 US 60/090072 PR
19-JUN-1998 US 60/089878,19-JUN-1998 US 60/089991 PR
19-JUN-1998 US 60/090000,19-JUN-1998 US 60/090048 PR
19-JUN-1998 US 60/089999,19-JUN-1998 US 60/090043 PR
19-JUN-1998 US 60/090042,19-JUN-1998 US 60/090036 PR
19-JUN-1998 US 60/090044,19-JUN-1998 US 60/089844 PR
19-JUN-1998 US 60/090080,19-JUN-1998 US 60/089833 PR
19-JUN-1998 US 60/089894,19-JUN-1998 US 60/090077 PR
19-JUN-1998 US 60/090078,19-JUN-1998 US 60/090047 PR
19-JUN-1998 US 60/090076,19-JUN-1998 US 60/090045 PR
08-DEC-1998 US 60/111715
PI BRUCE L ROBERTS, SRINIVAS SHANKARA
PC C12N15/09,C12N15/09,A61K39/00,A61P35/00,A61P37/04,C12N1/15, PC
C12N1/19,
PC C12N1/21,C12N5/10,GOIN33/15,GOIN33/50,GOIN33/53,GOIN33/566, PC
GOIN37/00,
PC C12N13/00,C12N5/00,C12N15/00
CC Preparation and use of superior vaccines
FH Key Location/Qualifiers
FT source 1.10
Location/Qualifiers
/organism='Homo sapiens (human)'.
1.10
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"

Query Match 28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 51;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1488 GAAGCCAGAC 1497
1 GAAGCCAGAC 10

RESULT 65
ES4684 10 bp DNA linear PAT 27-AUG-2002
LOCUS Human normal liver cell expression genes.
DEFINITION ES4684
ACCESSION ES4684.1 GI:22556167
VERSION JP 2001211883-A/36.
KEYWORDS Homo sapiens (human)
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens

REFERENCE 1 (bases 1 to 10)
AUTHORS Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
Matsushima,K., Hashimoto,S., Kaneko,S. and Yamashita,T.

TITLE Human normal liver cell expression genes
JOURNAL Patent: JP 2001211883-A 36 07-AUG-2001;
SCIENCE & TECH AGENCY
COMMENT OS Homo sapiens (human)
PN JP 2001211883-A/36
PD 07-AUG-2001
PF 31-JAN-2000 JP 2000023170
PI KOJI MATSUSHIMA, SHINICHI HASHIMOTO, SHUICHI KANEKO, TARO PI
YAMASHITA
PC C12N15/09, C07K16/18, C12P21/02, C12N15/00
CC FH Key Location/Qualifiers.

FEATURES
source 1. .10 Location/Qualifiers
/organism="Homo sapiens"
/mol_type="genomic DNA"
/db_xref="taxon:9606"

Query Match 28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 51;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1489 AAGCCAGACT 1498
Db 10 AGGCCAGACT 1

RESULT 66
AR181983/c AR181983 10 bp DNA linear PAT 20-APR-2002
LOCUS Sequence 12 from patent US 6337071.
DEFINITION AR181983
ACCESSION AR181983
VERSION AR181983.1 GI:20224899
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 10)
AUTHORS Molynaux W, Mitchell L.
TITLE Mosquito and/or flea control
JOURNAL Patent: US 6337071-A 12 08-JAN-2002;
FEATURES Location/Qualifiers
source 1. .10
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 51;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1498 TTCAGCAGCC 1507
Db 10 TTTCGAGCC 1

RESULT 67
AR303303 AR303303 10 bp DNA linear PAT 12-JUN-2003
LOCUS Sequence 28 from patent US 6544736.
DEFINITION AR303303
ACCESSION AR303303
VERSION AR303303.1 GI:31692079
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 10)
AUTHORS Shimamoto, A., Furuichi, Y., Shibata, Y., Funaki, H., Ohara, E. and
Watahiki, M.
TITLE Method for synthesizing cDNA from mRNA sample
JOURNAL Patent: US 6544736-A 28 08-APR-2003;
FEATURES Location/Qualifiers
source 1. .10
/organism="unknown"

/mol_type="genomic DNA"

Query Match 28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 51;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1496 ACTTCAGCAG 1505
Db 1 ACATCAGCAG 10

RESULT 68
AR303338 AR303338 10 bp DNA linear PAT 12-JUN-2003
LOCUS Sequence 63 from patent US 6544736.
DEFINITION AR303338
ACCESSION AR303338
VERSION AR303338.1 GI:31692114
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 10)
AUTHORS Shimamoto, A., Furuichi, Y., Shibata, Y., Funaki, H., Ohara, E. and
Watahiki, M.
TITLE Method for synthesizing cDNA from mRNA sample
JOURNAL Patent: US 6544736-A 63 08-APR-2003;
FEATURES Location/Qualifiers
source 1. .10
/organism="unknown"
/mol_type="genomic DNA"

Query Match 28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 51;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1495 GACTTCAGCA 1504
Db 10 GACTTCAGCA 1

RESULT 69
AR304485 AR304485 10 bp DNA linear PAT 12-JUN-2003
LOCUS Sequence 110 from patent US 6544784.
DEFINITION AR304485
ACCESSION AR304485
VERSION AR304485.1 GI:31693633
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE 1 (bases 1 to 10)
AUTHORS Bulterdiek, J., Van de Ven, W. J. M., Schoenmakers, H. F. P. M. and Mols, R.
TITLE Multiple-tumor aberrant growth genes
JOURNAL Patent: US 6544784-A 110 08-APR-2003;
FEATURES Location/Qualifiers
source 1. .10
/organism="unknown"
/mol_type="genomic DNA"

Query Match 28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 51;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1486 AAGAAGCAG 1495
Db 1 AAGAAGCAG 10

RESULT 70
AR382219 AR382219 10 bp DNA linear PAT 18-DEC-2003
LOCUS Sequence 6 from patent US 6610487.
DEFINITION AR382219
ACCESSION AR382219

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VERSION      AR382219.1  GI:40090631
KEYWORDS
SOURCE       Unknown.
ORGANISM     Unclassified.
REFERENCE    1 (bases 1 to 10)
AUTHORS      Keinath,A.P., Somai,B.M. and Dean,R.A.
TITLE        Method of diagnosing gummy stem blight in plants using a polymerase
JOURNAL      Patent: US 6610487-A 6 26-AUG-2003;
FEATURES     Location/Qualifiers
             1..10
             /organism="unknown"
             /mol_type="unassigned DNA"

Query Match      28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 51;
Matches          9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY              1488 GAAGCCAGAC 1497
Db              1 GATGCCAGAC 10

RESULT 71
LOCUS          AX152226                10 bp    DNA    PAT 22-JUN-2001
DEFINITION     Sequence 141 from Patent WO0138577.
ACCESSION      AX152226
VERSION        AX152226.1  GI:14533877
KEYWORDS
SOURCE         Homo sapiens (human)
ORGANISM       Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
               Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE      1
AUTHORS        Velculescu,V.E., Vogelstein,B. and Kinzler,K.W.
TITLE          Human transcriptomes
JOURNAL        Patent: WO 0138577-A 141 31-MAY-2001;
               The Johns Hopkins University (US)
FEATURES       Location/Qualifiers
               1..10
               /organism="Homo sapiens"
               /mol_type="unassigned DNA"
               /db_xref="taxon:9606"

Query Match      28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 51;
Matches          9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY              1496 ACTTCAGCAG 1505
Db              10 ACTTAACGAG 1

RESULT 72
LOCUS          AX152377                10 bp    DNA    PAT 22-JUN-2001
DEFINITION     Sequence 292 from Patent WO0138577.
ACCESSION      AX152377
VERSION        AX152377.1  GI:14534028
KEYWORDS
SOURCE         Homo sapiens (human)
ORGANISM       Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
               Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE      1
AUTHORS        Velculescu,V.E., Vogelstein,B. and Kinzler,K.W.
TITLE          Human transcriptomes
JOURNAL        Patent: WO 0138577-A 292 31-MAY-2001;
               The Johns Hopkins University (US)
FEATURES       Location/Qualifiers
               1..10
               /organism="Homo sapiens"
               /mol_type="unassigned DNA"
               /db_xref="taxon:9606"

Query Match      28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 51;
Matches          9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY              1484 CCAAGAGGCC 1493
Db              1 CCAAGAGGCC 10

```

```

Query Match      28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 51;
Matches          9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY              1499 TCAGCAGCCA 1508
Db              1 TCAGCAGCCA 10

RESULT 73
LOCUS          AX153162                10 bp    DNA    PAT 22-JUN-2001
DEFINITION     Sequence 1077 from Patent WO0138577.
ACCESSION      AX153162
VERSION        AX153162.1  GI:14534813
KEYWORDS
SOURCE         Homo sapiens (human)
ORGANISM       Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
               Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE      1
AUTHORS        Velculescu,V.E., Vogelstein,B. and Kinzler,K.W.
TITLE          Human transcriptomes
JOURNAL        Patent: WO 0138577-A 1077 31-MAY-2001;
               The Johns Hopkins University (US)
FEATURES       Location/Qualifiers
               1..10
               /organism="Homo sapiens"
               /mol_type="unassigned DNA"
               /db_xref="taxon:9606"

Query Match      28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 51;
Matches          9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY              1490 AGCCAGACTT 1499
Db              10 AGCCAGACTT 1

RESULT 74
LOCUS          AX362608                10 bp    DNA    PAT 15-FEB-2002
DEFINITION     Sequence 42 from Patent WO0208425.
ACCESSION      AX362608
VERSION        AX362608.1  GI:18694752
KEYWORDS
SOURCE         Homo sapiens (human)
ORGANISM       Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
               Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
REFERENCE      1
AUTHORS        Finkel,K. and Koshy,B.
TITLE          Haplotypes of the adrb3 gene
JOURNAL        Patent: WO 0208425-A 42 31-JAN-2002;
               Genalsance Pharmaceuticals, Inc. (US)
FEATURES       Location/Qualifiers
               1..10
               /organism="Homo sapiens"
               /mol_type="unassigned DNA"
               /db_xref="taxon:9606"

Query Match      28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 51;
Matches          9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY              1484 CCAAGAGGCC 1493
Db              1 CCAAGAGGCC 10

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```

RESULT 75
LOCUS AX377325/c 10 bp DNA linear PAT 18-MAR-2002
DEFINITION Sequence 63 from Patent WO0212498.
ACCESSION AX377325
VERSION AX377325.1 GI:19573612
KEYWORDS
SOURCE
ORGANISM Homo sapiens (human)
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homiidae; Homo.
REFERENCE
AUTHORS Klem,S.B., Koshiy,B. and Tanguay,D.A.
TITLE Haplotypes of the ts11 gene
JOURNAL Patent: WO 0212498-A 63 14-FEB-2002;
Genaisance Pharmaceuticals, Inc. (US)
FEATURES
source
1. .10
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 51;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1495 GACTTCAGCA 1504
DB 10 GCGTTCAGCA 1

RESULT 76
LOCUS BD065117 10 bp DNA linear PAT 27-AUG-2002
DEFINITION Characterization of the yeast transcriptome.
ACCESSION BD065117
VERSION BD065117.1 GI:22610720
KEYWORDS JP 2001509017-A/53.
SOURCE Saccharomyces cerevisiae (baker's yeast)
ORGANISM Saccharomyces cerevisiae
Eukaryota; Fungi; Ascomycota; Saccharomycotina; Saccharomycetes;
Saccharomycetales; Saccharomycetaceae; Saccharomycetes.
1 (bases 1 to 10)
REFERENCE
AUTHORS Velculescu,V.B., Vogelstein,B. and Kinzler,K.W.
TITLE Characterization of the yeast transcriptome
JOURNAL Patent: JP 2001509017-A 53 10-JUL-2001;
THE JOHNS HOPKINS UNIVERSITY SCHOOL OF MEDICINE
COMMENT OS Saccharomyces cerevisiae (yeast)
PN JP 2001509017-A/53
PD 10-JUL-2001
PF 22-JAN-1998 JP 1998532117
PR 23-JAN-1997 US 60/035917
PI VICTOR E VELCULESCU,BERT VOGELSTEIN,KENNETH W KINZLER PC
C12N15/10,C12N15/31,C07K14/395,C12Q1/68,C12Q1/02 CC
CHARACTERIZATION OF THE YEAST TRANSCRIPTOME
FH Key location/Qualifiers
FT source 1. .10
/organism="Saccharomyces cerevisiae (yeast)".
Location/Qualifiers
1. .10
/organism="Saccharomyces cerevisiae"
/mol_type="genomic DNA"
/db_xref="taxon:4932"

Query Match 28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 51;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1480 ACGACCAAGA 1489
DB 1 ACGGCAAGA 10

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```

RESULT 77
LOCUS BD167088/c 10 bp DNA linear PAT 17-JAN-2003
DEFINITION Human liver disease-expressing genes.
ACCESSION BD167088
VERSION BD167088.1 GI:27872900
KEYWORDS JP 2002209591-A/633.
SOURCE unidentified
ORGANISM unidentified
1 (bases 1 to 10)
REFERENCE
AUTHORS Matsushima,K., Hashimoto,S., Kaneko,S. and Yamashita,T.
TITLE Human liver disease-expressing genes
JOURNAL Patent: JP 2002209591-A 633 30-JUL-2002;
JAPAN SCIENCE AND TECHNOLOGY CORP
COMMENT OS Homo sapiens (human)
PN JP 2002209591-A/633
PD 30-JUL-2002
PF 19-JAN-2001 JP 2001012328
PI KOJI MATSUSHIMA,SHINICHI HASHIMOTO,SHUICHI KANEKO,TARO PI
YAMASHITA
PC C12N15/09,C07K14/47,C07K16/18,G01N33/15,G01N33/50//C12P21/02,
PC C12P21/08,
PC C12N15/00
CC Human liver disease-expressing genes
FH Key location/Qualifiers
FT source 1. .10
/organism="Homo sapiens (human)".
Location/Qualifiers
1. .10
/organism="unidentified"
/mol_type="genomic DNA"
/db_xref="taxon:32644"

Query Match 28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 51;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1489 AAGCCAGACT 1498
DB 10 AAGCCAGACT 1

RESULT 78
LOCUS A02163 11 bp DNA linear PAT 21-MAY-1993
DEFINITION Nucleotide sequence 10 from patent number WO8503723.
ACCESSION A02163
VERSION A02163.1 GI:410850
KEYWORDS
SOURCE unidentified
ORGANISM unidentified
1 (bases 1 to 11)
REFERENCE
AUTHORS
TITLE VECTOR FOR THE EXPRESSION IN YEASTS OF INTERLEUKINE-2, TRANSFORMED
YEASTS AND METHOD FOR PREPARING INTERLEUKINE-2
JOURNAL Patent: WO 8503723-A 10 29-AUG-1985;
Location/Qualifiers
1. .11
/organism="unidentified"
/mol_type="unassigned DNA"
/db_xref="taxon:32644"

Query Match 28.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 54;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1481 GCACCAAGA 1490
DB 1 GCACCAAGA 10

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RESULT 79
A04685
LOCUS A04685 11 bp DNA linear PAT 24-MAY-1993
DEFINITION Nucleotide sequence 9 from patent number EP0152358.
ACCESSION A04685
VERSION A04685.1 GI:411035
KEYWORDS
SOURCE unidentified
ORGANISM unclassified
REFERENCE 1 (bases 1 to 11)
AUTHORS Lemoine,Y., Sondermeyer,P., Loison,G., Aigle,M. and Lecocq,J.P.
TITLE Yeast-expression vectors for interleukin-2, transformed yeasts and process for the preparation of interleukin-2
JOURNAL Patent: EP 0152358-A 9 21-AUG-1985;
TRANSGENE S.A
FEATURES
source Location/Qualifiers
1..11
/organism="unclassified"
/mol_type="unassigned DNA"
/db_xref="taxon:32644"

Query Match 28.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 54;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1481 CGACCAAGAA 1490
Db 1 CGACCAAGAA 10

RESULT 80
AR030153/c
LOCUS AR030153 11 bp DNA linear PAT 29-SEP-1999
DEFINITION Sequence 342 from patent US 5861244.
ACCESSION AR030153
VERSION AR030153.1 GI:5943367
KEYWORDS
SOURCE Unknown.
ORGANISM Unclassified.
REFERENCE 1 (bases 1 to 11)
AUTHORS Wang,C.-G. and Hepburn,A.G.
TITLE Genetic sequence assay using DNA tripe strand formation
JOURNAL Patent: US 5861244-A 342 19-JAN-1999;
FEATURES
source Location/Qualifiers
1..11
/organism="unknown"
/mol_type="unassigned DNA"

Query Match 28.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 54;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1482 GACCAAGAG 1491
Db 11 GACCAAGAG 2

RESULT 81
AR353840/c
LOCUS AR353840 11 bp DNA linear PAT 17-AUG-2003
DEFINITION Sequence 15 from patent US 6593111.
ACCESSION AR353840
VERSION AR353840.1 GI:33759907
KEYWORDS
SOURCE Unknown.
ORGANISM Unknown.
REFERENCE Unclassified.
TITLE 1 (bases 1 to 11)
AUTHORS Bartic,R.S. and Yount,B.

TITLE Directional assembly of large viral genomes and chromosomes
JOURNAL Patent: US 6593111-A 15 15-JUL-2003;
FEATURES
source Location/Qualifiers
1..11
/organism="unknown"
/mol_type="genomic DNA"

Query Match 28.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 54;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1484 CCAAGAGCC 1493
Db 10 CCAAGAGCC 1

RESULT 82
AX470484/c
LOCUS AX470484 11 bp DNA linear PAT 09-AUG-2002
DEFINITION Sequence 61 from Patent WO02053773.
ACCESSION AX470484
VERSION AX470484.1 GI:22205609
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1
AUTHORS Hofmann,K., Conradt,M. and Petersohn,D.
TITLE Method for determining skin stress or skin ageing in vitro
JOURNAL Patent: WO 02053773-A 61 11-JUL-2002;
HENKEL KGAA (DE)
FEATURES
source Location/Qualifiers
1..11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 28.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 54;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1498 TTCAGCAGCC 1507
Db 11 TTCAGCAGCC 2

RESULT 83
AX470732
LOCUS AX470732 11 bp DNA linear PAT 09-AUG-2002
DEFINITION Sequence 309 from Patent WO02053773.
ACCESSION AX470732
VERSION AX470732.1 GI:22205857
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi; Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1
AUTHORS Hofmann,K., Conradt,M. and Petersohn,D.
TITLE Method for determining skin stress or skin ageing in vitro
JOURNAL Patent: WO 02053773-A 309 11-JUL-2002;
HENKEL KGAA (DE)
FEATURES
source Location/Qualifiers
1..11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 28.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 54;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1484 CCAAGAGCC 1493
 DB 2 CCAAGATGCC 11

RESULT 84
 LOCUS AX471384/c 11 bp DNA linear PAT 09-AUG-2002
 DEFINITION Sequence 961 from Patent WO02053773.
 ACCESSION AX471384
 VERSION AX471384.1 GI:22206509
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
 AUTHORS Hofmann, K., Conradt, M. and Petersohn, D.
 TITLE Method for determining skin stress or skin ageing in vitro
 JOURNAL Patent: WO 02053773-A 961 11-JUL-2002;
 HENKEL KGAA (DE)

FEATURES
 source Location/Qualifiers
 1..11
 /organism="Homo sapiens"
 /mol_type="unassigned DNA"
 /db_xref="taxon:9606"

Query Match 28.0%; Score 8.4; DB 1; Length 11;
 Best Local Similarity 90.0%; Pred. No. 54;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1479 CACGACCAAG 1488
 DB 11 CACGACCAAG 2

RESULT 85
 LOCUS AX616455/c 11 bp DNA linear PAT 20-FEB-2003
 DEFINITION Sequence 16 from Patent EP1262565.
 ACCESSION AX616455
 VERSION AX616455.1 GI:28447498
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
 AUTHORS Affourtit, J.P., Nelson, D.L., Seymour, A.B. and Webb, S.M.
 TITLE Genetic polymorphisms in the human neurokinin 1 receptor gene and
 their uses in diagnosis and treatment of diseases
 JOURNAL Patent: EP 1262565-A 16 04-DEC-2002;
 Pfizer Products Inc. (US)

FEATURES
 source Location/Qualifiers
 1..11
 /organism="Homo sapiens"
 /mol_type="unassigned DNA"
 /db_xref="taxon:9606"

Query Match 28.0%; Score 8.4; DB 1; Length 11;
 Best Local Similarity 90.0%; Pred. No. 54;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1489 AAGCCAGACT 1498
 DB 10 AAGCCAGACT 1

RESULT 86
 LOCUS AX624591/c 11 bp DNA linear PAT 21-FEB-2003
 DEFINITION Sequence 1632 from Patent WO02053774.
 ACCESSION AX624591

VERSION AX624591.1 GI:28452532
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
 AUTHORS Petersohn, D., Conradt, M. and Hofmann, K.
 TITLE Method for determining homeostasis of the skin
 JOURNAL Patent: WO 02053774-A 1632 11-JUL-2002;
 Henkel Kommanditgesellschaft auf Aktien (DE)

FEATURES
 source Location/Qualifiers
 1..11
 /organism="Homo sapiens"
 /mol_type="unassigned DNA"
 /db_xref="taxon:9606"

Query Match 28.0%; Score 8.4; DB 1; Length 11;
 Best Local Similarity 90.0%; Pred. No. 54;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1497 CTTCCGACAC 1506
 DB 11 CTTCCGACAC 2

RESULT 87
 LOCUS AX625489/c 11 bp DNA linear PAT 21-FEB-2003
 DEFINITION Sequence 2530 from Patent WO02053774.
 ACCESSION AX625489
 VERSION AX625489.1 GI:28453430
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
 AUTHORS Petersohn, D., Conradt, M. and Hofmann, K.
 TITLE Method for determining homeostasis of the skin
 JOURNAL Patent: WO 02053774-A 2530 11-JUL-2002;
 Henkel Kommanditgesellschaft auf Aktien (DE)

FEATURES
 source Location/Qualifiers
 1..11
 /organism="Homo sapiens"
 /mol_type="unassigned DNA"
 /db_xref="taxon:9606"

Query Match 28.0%; Score 8.4; DB 1; Length 11;
 Best Local Similarity 90.0%; Pred. No. 54;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1493 CAGACTTCAG 1502
 DB 10 CAGACTTCAG 1

RESULT 88
 LOCUS AX625964 11 bp DNA linear PAT 21-FEB-2003
 DEFINITION Sequence 3005 from Patent WO02053774.
 ACCESSION AX625964
 VERSION AX625964.1 GI:28454002
 KEYWORDS
 SOURCE Homo sapiens (human)
 ORGANISM Homo sapiens
 Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
 Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE 1
 AUTHORS Petersohn, D., Conradt, M. and Hofmann, K.
 TITLE Method for determining homeostasis of the skin
 JOURNAL Patent: WO 02053774-A 3005 11-JUL-2002;
 Henkel Kommanditgesellschaft auf Aktien (DE)

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FEATURES
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    Location/Qualifiers
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        /organism="Homo sapiens"
        /mol_type="unassigned DNA"
        /db_xref="taxon:9606"

Query Match      28.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 54;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1487 AGAGCCAGA 1496
Db      1 AGAGCCAGA 10

RESULT 89
LOCUS      AX626847
DEFINITION Sequence 3888 from Patent WO02053774.
ACCESSION  AX626847
VERSION     AX626847.1 GI:28454885
KEYWORDS
SOURCE      Homo sapiens (human)
ORGANISM    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
  1
  AUTHORS    Petersohn,D., Conradt,M. and Hofmann,K.
  TITLE      Method for determining homeostasis of the skin
  JOURNAL    Patent: WO 02053774-A 3888 11-JUL-2002;
            Henkel Kommanditgesellschaft auf Aktien (DE)
  FEATURES
    source
      Location/Qualifiers
        1. .11
          /organism="Homo sapiens"
          /mol_type="unassigned DNA"
          /db_xref="taxon:9606"

Query Match      28.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 54;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1494 AGACTTCAGC 1503
Db      11 AGACTTCAGC 2

RESULT 90
LOCUS      AX627093/c
DEFINITION Sequence 4134 from Patent WO02053774.
ACCESSION  AX627093
VERSION     AX627093.1 GI:28455131
KEYWORDS
SOURCE      Homo sapiens (human)
ORGANISM    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
  1
  AUTHORS    Petersohn,D., Conradt,M. and Hofmann,K.
  TITLE      Method for determining homeostasis of the skin
  JOURNAL    Patent: WO 02053774-A 4134 11-JUL-2002;
            Henkel Kommanditgesellschaft auf Aktien (DE)
  FEATURES
    source
      Location/Qualifiers
        1. .11
          /organism="Homo sapiens"
          /mol_type="unassigned DNA"
          /db_xref="taxon:9606"

Query Match      28.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 54;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1493 CAGACTTCAG 1502

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Db      11 CAGACTTCAG 2

RESULT 91
LOCUS      AX627287
DEFINITION Sequence 4328 from Patent WO02053774.
ACCESSION  AX627287
VERSION     AX627287.1 GI:28455325
KEYWORDS
SOURCE      Homo sapiens (human)
ORGANISM    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
  1
  AUTHORS    Petersohn,D., Conradt,M. and Hofmann,K.
  TITLE      Method for determining homeostasis of the skin
  JOURNAL    Patent: WO 02053774-A 4328 11-JUL-2002;
            Henkel Kommanditgesellschaft auf Aktien (DE)
  FEATURES
    source
      Location/Qualifiers
        1. .11
          /organism="Homo sapiens"
          /mol_type="unassigned DNA"
          /db_xref="taxon:9606"

Query Match      28.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 54;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1490 AGCCAGACTT 1499
Db      2 AGCCAGACTT 11

RESULT 92
LOCUS      AX627505
DEFINITION Sequence 4546 from Patent WO02053774.
ACCESSION  AX627505
VERSION     AX627505.1 GI:28455543
KEYWORDS
SOURCE      Homo sapiens (human)
ORGANISM    Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
            Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
  1
  AUTHORS    Petersohn,D., Conradt,M. and Hofmann,K.
  TITLE      Method for determining homeostasis of the skin
  JOURNAL    Patent: WO 02053774-A 4546 11-JUL-2002;
            Henkel Kommanditgesellschaft auf Aktien (DE)
  FEATURES
    source
      Location/Qualifiers
        1. .11
          /organism="Homo sapiens"
          /mol_type="unassigned DNA"
          /db_xref="taxon:9606"

Query Match      28.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 54;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1489 AAGCCAGACT 1498
Db      1 AAGCCAGACT 10

RESULT 93
LOCUS      AX627654/c
DEFINITION Sequence 4695 from Patent WO02053774.
ACCESSION  AX627654
VERSION     AX627654.1 GI:28455692
KEYWORDS

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SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Petersohn, D., Conrad, M. and Hofmann, K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 4695 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES Location/Qualifiers
source 1..11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 28.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 54;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1479 CACGACCAAG 1488
Db 11 CACGACCAAG 2

RESULT 94
LOCUS AX627926 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 4967 from Patent WO02053774.
ACCESSION AX627926
VERSION AX627926.1 GI:28455964
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Petersohn, D., Conrad, M. and Hofmann, K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 4967 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES Location/Qualifiers
source 1..11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 28.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 54;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1497 CTTACGACGC 1506
Db 2 CTTACGACGC 11

RESULT 95
LOCUS AX628508 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 5549 from Patent WO02053774.
ACCESSION AX628508
VERSION AX628508.1 GI:28456546
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Petersohn, D., Conrad, M. and Hofmann, K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 5549 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES Location/Qualifiers
source 1..11

/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 28.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 54;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1487 AGAAGCCAGA 1496
Db 2 AGAAGCCAGA 11

RESULT 96
LOCUS AX629116 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 6157 from Patent WO02053774.
ACCESSION AX629116
VERSION AX629116.1 GI:28457154
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Petersohn, D., Conrad, M. and Hofmann, K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 6157 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES Location/Qualifiers
source 1..11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 28.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 54;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1484 CCAGAGGCC 1493
Db 2 CCAGAGGCC 11

RESULT 97
LOCUS AX629158/c 11 bp DNA linear PAT 21-FEB-2003
DEFINITION Sequence 6199 from Patent WO02053774.
ACCESSION AX629158
VERSION AX629158.1 GI:28457196
KEYWORDS
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
REFERENCE 1
AUTHORS Petersohn, D., Conrad, M. and Hofmann, K.
TITLE Method for determining homeostasis of the skin
JOURNAL Patent: WO 02053774-A 6199 11-JUL-2002;
Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES Location/Qualifiers
source 1..11
/organism="Homo sapiens"
/mol_type="unassigned DNA"
/db_xref="taxon:9606"

Query Match 28.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 54;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1498 TTCACGACCC 1507
Db 11 TTCACGACCC 2

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RESULT 98
AX629366      11 bp   DNA      1linear   PAT 21-FEB-2003
LOCUS         Sequence 6407 from Patent WO02053774.
DEFINITION   AX629366
ACCESSION    AX629366.1 GI:28457404
KEYWORDS
SOURCE       Homo sapiens (human)
ORGANISM     Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
              Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
AUTHORS      Petersohn,D., Conradt,M. and Hofmann,K.
TITLE        Method for determining homeostasis of the skin
JOURNAL      Patent: WO 02053774-A 6407 11-JUL-2002;
              Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
Source       Location/Qualifiers
              1..11
              /organism="Homo sapiens"
              /mol_type="unassigned DNA"
              /db_xref="taxon:9606"

Query Match  28.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 54;
Matches      9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy          1497 CTCGACGAGC 1506
Db          2 CTCGACGAGC 11

RESULT 99
AX629825/c    11 bp   DNA      1linear   PAT 21-FEB-2003
LOCUS         Sequence 6866 from Patent WO02053774.
DEFINITION   AX629825
ACCESSION    AX629825
VERSION      AX629825.1 GI:28457863
KEYWORDS
SOURCE       Homo sapiens (human)
ORGANISM     Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
              Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
AUTHORS      Petersohn,D., Conradt,M. and Hofmann,K.
TITLE        Method for determining homeostasis of the skin
JOURNAL      Patent: WO 02053774-A 6866 11-JUL-2002;
              Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
Source       Location/Qualifiers
              1..11
              /organism="Homo sapiens"
              /mol_type="unassigned DNA"
              /db_xref="taxon:9606"

Query Match  28.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 54;
Matches      9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy          1484 CCAGAGAGCC 1493
Db          10 CCAGAGAGCC 1

RESULT 100
AX629827/c    11 bp   DNA      1linear   PAT 21-FEB-2003
LOCUS         Sequence 6868 from Patent WO02053774.
DEFINITION   AX629827
ACCESSION    AX629827
VERSION      AX629827.1 GI:28457865
KEYWORDS
SOURCE       Homo sapiens (human)
ORGANISM     Homo sapiens
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
AUTHORS      Petersohn,D., Conradt,M. and Hofmann,K.
TITLE        Method for determining homeostasis of the skin
JOURNAL      Patent: WO 02053774-A 6868 11-JUL-2002;
              Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
Source       Location/Qualifiers
              1..11
              /organism="Homo sapiens"
              /mol_type="unassigned DNA"
              /db_xref="taxon:9606"

Query Match  28.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 54;
Matches      9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy          1492 CCAGACATCA 1501
Db          10 CCAGACATCA 1

RESULT 101
AX630195      11 bp   DNA      1linear   PAT 21-FEB-2003
LOCUS         Sequence 7236 from Patent WO02053774.
DEFINITION   AX630195
ACCESSION    AX630195
VERSION      AX630195.1 GI:28458233
KEYWORDS
SOURCE       Homo sapiens (human)
ORGANISM     Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
              Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
AUTHORS      Petersohn,D., Conradt,M. and Hofmann,K.
TITLE        Method for determining homeostasis of the skin
JOURNAL      Patent: WO 02053774-A 7236 11-JUL-2002;
              Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
Source       Location/Qualifiers
              1..11
              /organism="Homo sapiens"
              /mol_type="unassigned DNA"
              /db_xref="taxon:9606"

Query Match  28.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 54;
Matches      9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy          1484 CCAGAGAGCC 1493
Db          2 CCAGAGAGCC 1

RESULT 102
AX632012/c    11 bp   DNA      1linear   PAT 21-FEB-2003
LOCUS         Sequence 9054 from Patent WO02053774.
DEFINITION   AX632012
ACCESSION    AX632012
VERSION      AX632012.1 GI:28467627
KEYWORDS
SOURCE       Homo sapiens (human)
ORGANISM     Homo sapiens
              Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
              Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.

REFERENCE
AUTHORS      Petersohn,D., Conradt,M. and Hofmann,K.
TITLE        Method for determining homeostasis of the skin
JOURNAL      Patent: WO 02053774-A 9054 11-JUL-2002;
              Henkel Kommanditgesellschaft auf Aktien (DE)
FEATURES
Source       Location/Qualifiers
              1..11
              /organism="Homo sapiens"
              /mol_type="unassigned DNA"
```

/db_xref="taxon:9606"

Query Match 28.0%; Score 8.4; DB 1; Length 11;

Best Local Similarity 90.0%; Pred.No.54;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1497 CTTGACGAC 1506

DB 11 CTTCCGACG 2

Search completed: April 15, 2004, 16:33:23
Job time : 1 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 15, 2004, 16:35:35 ; Search time 0.001 Seconds
(without alignments)
98.460 Million cell updates/sec

Title: us-09-954-556-3

Perfect score: 30
Sequence: 1 cagcacaagaagccagactcagcagcca 30

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 0.5

Searched: 143 seqs, 1641 residues

Total number of hits satisfying chosen parameters: 286

Minimum DB seq length: 8
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 143 summaries

Database : rng.seq:*
Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	13.8	46.0	17	AAQ24060	Artificial HIV-1 T
2	13.8	46.0	17	AA259070	HIV-1 TAR oligonuc
3	13.8	46.0	17	ABK26439	Waxy starch produc
4	13.8	46.0	17	ABK26440	Waxy starch produc
5	13.8	46.0	18	AA259072	HIV-1 TAR oligonuc
6	13.8	46.0	18	AA274454	Human PRO2 gene-sp
7	13.8	46.0	18	AA274457	Human PRO2 gene-sp
8	12.4	41.3	15	AA257566	Antisense oligo #5
9	12.4	41.3	15	AA257566	Antisense oligo #5
10	12.4	41.3	15	AA257566	Antisense oligo #5
11	12.4	41.3	15	AA257566	Antisense oligo #5
12	12.4	41.3	15	AA257566	Antisense oligo #5
13	12.4	41.3	15	AA257566	Antisense oligo #5
14	12.4	41.3	15	AA257566	Antisense oligo #5
15	12.4	41.3	15	AA257566	Antisense oligo #5
16	12.4	41.3	15	AA257566	Antisense oligo #5
17	12.4	41.3	15	AA257566	Antisense oligo #5
18	12.4	41.3	15	AA257566	Antisense oligo #5
19	12.4	41.3	15	AA257566	Antisense oligo #5
20	12.4	41.3	15	AA257566	Antisense oligo #5
21	12.4	41.3	15	AA257566	Antisense oligo #5
22	12.4	41.3	15	AA257566	Antisense oligo #5
23	12.4	41.3	15	AA257566	Antisense oligo #5
24	12.4	41.3	15	AA257566	Antisense oligo #5
25	12.4	41.3	15	AA257566	Antisense oligo #5
26	12.4	41.3	15	AA257566	Antisense oligo #5
27	12.4	41.3	15	AA257566	Antisense oligo #5
28	12.4	41.3	15	AA257566	Antisense oligo #5
29	12.4	41.3	15	AA257566	Antisense oligo #5
30	12.4	41.3	15	AA257566	Antisense oligo #5
31	12.4	41.3	15	AA257566	Antisense oligo #5
32	12.4	41.3	15	AA257566	Antisense oligo #5
33	12.4	41.3	15	AA257566	Antisense oligo #5

34	9.8	32.7	13	1	ABH65692	Oligonucleotide SE
35	9.8	32.7	13	1	ABH65694	Oligonucleotide SE
36	9.8	32.7	13	1	ABH65693	Oligonucleotide SE
37	9.8	32.7	13	1	ABH65695	Oligonucleotide SE
38	9.8	32.7	13	1	ABH65695	Oligonucleotide SE
39	9.8	32.7	13	1	ABH65695	Oligonucleotide SE
40	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
41	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
42	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
43	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
44	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
45	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
46	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
47	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
48	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
49	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
50	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
51	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
52	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
53	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
54	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
55	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
56	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
57	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
58	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
59	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
60	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
61	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
62	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
63	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
64	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
65	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
66	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
67	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
68	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
69	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
70	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
71	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
72	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
73	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
74	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
75	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
76	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
77	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
78	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
79	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
80	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
81	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
82	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
83	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
84	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
85	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
86	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
87	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
88	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
89	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
90	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
91	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
92	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
93	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
94	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
95	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
96	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
97	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
98	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
99	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
100	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
101	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
102	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
103	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
104	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
105	9.4	31.3	11	1	ABH65695	Oligonucleotide SE
106	9.4	31.3	11	1	ABH65695	Oligonucleotide SE

CC The oligonucleotide AAZ59070-259071 anneal to form a double stranded
 CC oligonucleotide containing the HIV-1 trans-activation regulatory region
 CC (TAR) to which the HIV-1 Tat protein binds. The complex is labelled with
 CC 6-carboxyfluorescein and is used as a target for the binding of a
 CC labelled ADP-1 protein. Detection of the complex is by fluorescence
 CC resonance energy transfer (FRET). The method is used to identify
 CC compounds that interfere with interaction between the target RNA and
 CC ligands or proteins. Compounds that are identified are potentially useful
 CC for treating infections (viral, bacterial or fungal), cancer and
 CC autoimmune diseases. The compounds are preferably directed to the TAR and
 CC RRE regions of human immunodeficiency virus RNA and inhibit viral
 CC replication. (Updated on 15-SEP-2003 to standardise OS field)
 CC
 SQ Sequence 17 BP; 5 A; 4 C; 5 G; 0 T; 3 U; 0 Other;
 Query Match 46.0%; Score 13.8; DB 1; Length 17;
 Best Local Similarity 76.5%; Pred. No. 9;
 Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
 QY 1490 AGCCAGACTCTGACGAC 1506
 DB 1 AGCCAGAUUUGACGAC 17
 AC
 AC ABRK6439;
 DT 09-APR-2002 (first entry)
 DE Waxy starch production genome altering oligonucleotide #95.
 XX
 XX Chromosomal genomic alteration; genome altering oligonucleotide; PCR; ss;
 KW o-methyl modification; LNA modification; phosphorothioate linkage;
 KW DNA repair; DNA alteration; environmental tolerance; hygromycin-B;
 KW abiotic stress tolerance; improved nutritional value; hygromycin; primer;
 KW amino acid over production; herbicide resistance; glyphosate resistance;
 KW imidazolinone herbicide resistance; sulphonylurea herbicide resistance;
 KW porphyrin herbicide resistance; triazine resistance; disease resistance;
 KW modified oil production; modified starch production; waxy starch;
 KW altered floral morphology; male-sterile plant; albino mutant;
 KW modified fatty acid content; reduced palmitate production; albino plant;
 KW increased stearate production; reduced linolenic acid production;
 KW photosynthetic process.
 KW Solanum tuberosum.
 OS Synthetic.
 OS
 XX WO200192512-A2.
 XX
 XX 06-DEC-2001.
 PD
 PF 01-JUN-2001; 2001WO-US017672.
 XX
 PR 01-JUN-2000; 2000US-0208538P.
 PR 30-OCT-2000; 2000US-0244989P.
 PR 27-MAR-2001; 2001US-00818875.
 XX
 PA (UYDE) UNIV DELAWARE.
 XX
 PI Kmiec EB, Gamper HB, Rice MC, Kim J;
 DR WPI; 2002-106307/14.
 XX
 XX New oligonucleotides with modified nuclease-resistant termini, useful for
 PT creating plants with desired phenotypes, e.g. stress tolerance, improved
 PT nutritional value, herbicide or disease resistance, or modified oil
 PT production.
 XX
 PS Claim 7; Page 151; 220pp; English.
 XX

CC The invention relates to an oligonucleotide for targeted alteration of a
 CC genetic sequence, which comprises a single-stranded oligonucleotide
 CC having a DNA domain. The DNA domain has at least one mismatch with
 CC respect to the genetic sequence to be altered and further comprises
 CC chemical modifications of the oligonucleotide. The chemical modifications
 CC consist of o-methyl modification, an LNA modification, two or more
 CC phosphorothioate linkages on a terminus, or a combination of any two or
 CC more of these modifications. The oligonucleotides are useful for
 CC directing repair or alteration of plant genetic information. The
 CC oligonucleotides are particularly useful for creating plants with desired
 CC phenotypes, e.g. environmental or abiotic stress tolerance, improved
 CC nutritional value (e.g. altering amino acid content of plants or
 CC conferring amino acid over production), herbicide resistance (e.g.
 CC glyphosate resistance, imidazolinone and sulphonylurea herbicide
 CC resistance, porphyrin herbicide resistance or triazine resistance),
 CC disease resistance, modified oil production, modified starch production
 CC (e.g. increased starch or production of waxy starch), altered floral
 CC morphology (e.g. male-sterile plants) or modified fatty acid content
 CC (e.g. reduced palmitate, increased stearate or reduced linolenic acid).
 CC The oligonucleotides are also useful for producing albino mutants for the
 CC analysis of photosynthetic processes. This sequence represents a genome
 CC altering oligonucleotide of the invention
 CC
 SQ Sequence 17 BP; 8 A; 4 C; 2 G; 3 T; 0 U; 0 Other;
 Query Match 46.0%; Score 13.8; DB 1; Length 17;
 Best Local Similarity 88.2%; Pred. No. 9;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 1485 CAGAGCCGACGACTTCA 1501
 DB 1 CAGAGAGCTAAACTTCA 17
 AC
 AC ABRK6440;
 DT 09-APR-2002 (first entry)
 DE Waxy starch production genome altering oligonucleotide #96.
 XX
 XX Chromosomal genomic alteration; genome altering oligonucleotide; PCR; ss;
 KW o-methyl modification; LNA modification; phosphorothioate linkage;
 KW DNA repair; DNA alteration; environmental tolerance; hygromycin-B;
 KW abiotic stress tolerance; improved nutritional value; hygromycin; primer;
 KW amino acid over production; herbicide resistance; glyphosate resistance;
 KW imidazolinone herbicide resistance; sulphonylurea herbicide resistance;
 KW porphyrin herbicide resistance; triazine resistance; disease resistance;
 KW modified oil production; modified starch production; waxy starch;
 KW altered floral morphology; male-sterile plant; albino mutant;
 KW modified fatty acid content; reduced palmitate production; albino plant;
 KW increased stearate production; reduced linolenic acid production;
 KW photosynthetic process.
 KW Solanum tuberosum.
 OS Synthetic.
 OS
 XX WO200192512-A2.
 XX
 XX 06-DEC-2001.
 PD
 PF 01-JUN-2001; 2001WO-US017672.
 XX
 PR 01-JUN-2000; 2000US-0208538P.
 PR 30-OCT-2000; 2000US-0244989P.
 PR 27-MAR-2001; 2001US-00818875.
 XX
 PA (UYDE) UNIV DELAWARE.
 XX
 PI Kmiec EB, Gamper HB, Rice MC, Kim J;
 XX

XX WPI; 2002-106307/14.
 XX
 DR New oligonucleotides with modified nuclease-resistant termini, useful for
 XX creating plants with desired phenotypes, e.g. stress tolerance, improved
 PT nutritional value, herbicide or disease resistance, or modified oil
 PT production.
 PS Claim 7; Page 151; 220pp; English.
 XX
 XX The invention relates to an oligonucleotide for targeted alteration of a
 CC genetic sequence, which comprises a single-stranded oligonucleotide
 CC having a DNA domain. The DNA domain has at least one mismatch with
 CC respect to the genetic sequence to be altered and further comprises
 CC chemical modifications of the oligonucleotide. The chemical modifications
 CC consist of O-methyl modification, an RNA modification, two or more
 CC phosphorothioate linkages on a terminus, or a combination of any two or
 CC more of these modifications. The oligonucleotides are useful for
 CC directing repair or alteration of plant genetic information. The
 CC oligonucleotides are particularly useful for creating plants with desired
 CC phenotypes, e.g. environmental or abiotic stress tolerance, improved
 CC nutritional value (e.g. altering amino acid content of plants or
 CC conferring amino acid over production), herbicide resistance (e.g.
 CC glyphosate resistance, imidazolinone and sulphonylurea herbicide
 CC resistance, porphyrin herbicide resistance or triazine resistance),
 CC disease resistance, modified oil production, modified starch production
 CC (e.g. increased starch or production of waxy starch), altered floral
 CC morphology (e.g. male-sterile plants) or modified fatty acid content
 CC (e.g. reduced palmitate, increased stearate or reduced linolenic acid).
 CC The oligonucleotides are also useful for producing albino mutants for the
 CC analysis of photosynthetic processes. This sequence represents a genome
 CC altering oligonucleotide of the invention
 CC
 XX SQ Sequence 17 BP; 3 A; 2 C; 4 G; 8 T; 0 U; 0 Other;
 Query Match 46.0%; Score 13.8; DB 1; Length 17;
 Best Local Similarity 88.2%; Pred. No. 9;
 Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 1485 CAAGAGCCGAGCTTCA 1501
 Db 17 CAAGAGCTAACTTCA 1
 RESULT 5
 AAZ59072
 ID AAZ59072 standard; RNA; 18 BP.
 XX
 AC AAZ59072;
 XX
 DT 15-SEP-2003 (revised)
 DT 11-APR-2000 (first entry)
 XX
 XX
 DE HIV-1 TAR oligonucleotide target sequence #3.
 XX
 KW Antiviral; antibacterial; antifungal; anticancer; detection; TAR; RRE;
 KW fluorescence resonance energy transfer; tat; HIV-1; Rev response element;
 KW autoimmune disease; trans-activation regulatory region; ss.
 XX
 OS Human immunodeficiency virus 1.
 XX
 PN WO9964625-A2.
 XX
 PD 16-DEC-1999.
 XX
 PF 04-JUN-1999; 99WO-GB001761.
 XX
 PR 05-JUN-1998; 98GB-00012196.
 PR 02-MAR-1999; 99GB-00004790.
 XX
 PA (RIBO-) RIBOTARGETS LTD.
 XX
 PI Karn J, Prescott CD;

XX WPI; 2000-097545/08.
 XX
 DR Identifying compounds that bind to target RNA, potentially useful for
 XX treating infections, tumors and autoimmune diseases.
 PT
 PT Example; Page 31; 82pp; English.
 PS
 XX The invention relates to a method of determining if a compound binds to a
 CC target RNA by treating a test compound with a reporter (R) labelled with
 CC a donor or acceptor group and labelled target RNA, labelled with the
 CC complementary donor or acceptor group, and measuring the fluorescence
 CC from fluorescent groups associated with a compound:target RNA complex in
 CC presence of the test compound and comparing the result with a standard.
 CC The oligonucleotides AAZ59070-259071 anneal to form a double stranded
 CC oligonucleotide containing the HIV-1 trans-activation regulatory region
 CC (TAR) to which the HIV-1 Tat protein binds. The complex is labelled with
 CC 5-carboxyfluorescein and is used as a target for the binding of a
 CC labelled Abp-1 protein. Detection of the complex is by fluorescence
 CC resonance energy transfer (FRET). The method is used to identify
 CC compounds that interfere with interaction between the target RNA and
 CC ligands or proteins. Compounds that are identified are potentially useful
 CC for treating infections (viral, bacterial or fungal), cancer and
 CC autoimmune diseases. The compounds are preferably directed to the TAR and
 CC RRE regions of human immunodeficiency virus RNA and inhibit viral
 CC replication. (Updated on 15-SEP-2003 to standardise OS field)
 CC
 XX SQ Sequence 18 BP; 5 A; 4 C; 6 G; 0 T; 3 U; 0 Other;
 Query Match 46.0%; Score 13.8; DB 1; Length 18;
 Best Local Similarity 76.5%; Pred. No. 9.5;
 Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
 QY 1490 AGCCAGATTACAGCAGC 1506
 Db 1 AGCCAGATTACAGCAGC 17
 RESULT 6
 AAF74454
 ID AAF74454 standard; DNA; 18 BP.
 XX
 AC AAF74454;
 XX
 DT 09-MAY-2001 (first entry)
 DT
 XX
 DE Human PRO2 gene-specific sequencing primer SEQ ID NO:40.
 XX
 KW Human; PRO; PROX; cytosolic; immunomodulatory; reproduction;
 KW gene therapy; cell proliferation; differentiation disorder; cancer;
 KW immune associated disorder; gestational disease; pre-clampsia;
 KW PCR primer; sequencing primer; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200110902-A2.
 PN
 PD 15-FEB-2001.
 PD
 PF 11-AUG-2000; 2000WO-US021857.
 PF
 PR 11-AUG-1999; 99US-0148433P.
 PR 10-AUG-2000; 2000US-00635949.
 XX
 PA (CURA-) CURAGEN CORP.
 XX
 PI Shimkets RA, Fernandes E;
 XX
 DR WPI; 2001-147509/15.
 XX
 PT Nucleic acids encoding secreted polypeptides, designated PROX
 PT polypeptides, useful for treating a syndrome associated with a PROX-
 PT associated disorder, e.g. cancer.

XX Example 2; Page 119; 166pp; English.

PS The present invention describes isolated nucleic acids encoding secreted

XX polypeptides, designated PROX polypeptides (i.e. a PRO polypeptide where

CC X is an integer from 1 to 17). PROX polypeptides have cytostatic,

CC immunomodulatory and reproduction activities, and can be used in gene

CC therapy, and as PROX antagonists and PROX agonists. PROX polypeptides,

CC nucleic acids and antibodies are useful in the manufacture of a

CC medicament for treating a syndrome associated with a PROX-associated

CC disorder, e.g. a cell proliferation and/or differentiation disorder (e.g.

CC cancer or immune associated disorders) and a gestational disease (e.g.

CC pre-clampsia). They are also used for screening for a modulator of

CC activity or of latency or predispotion to a PROX-associated disorder.

CC AAF74432 to AAF74448 encode the specifically claimed human PROX

CC polypeptides PRO1 to PRO17 given in AAB70531 to AAB70547. The present

CC sequence represents a primer used in an example from the present

CC invention

XX

SO Sequence 18 BP; 6 A; 8 C; 3 G; 1 T; 0 U; 0 Other;

Query Match 46.0%; Score 13.8; DB 1; Length 18;

Best Local Similarity 88.2%; Pred. No. 9.5;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1481 CGACCAAGAGCCAGAC 1497

DB 2 CTACCAAGAGCCAGCC 18

RESULT 7

AAAF74457/c

ID AAF74457 standard; DNA; 18 BP.

XX AAF74457;

AC

XX

XX

DT 09-MAY-2001 (first entry)

XX

XX

DE Human PRO2 gene-specific sequencing primer SEQ ID NO:43.

XX

XX

KW Human; PRO; PROX; cytostatic; immunomodulatory; reproduction;

KW gene therapy; cell proliferation; differentiation disorder; cancer;

KW immune associated disorder; gestational disease; pre-clampsia;

KW PCR primer; sequencing primer; ss.

XX

XX

OS Homo sapiens.

XX

XX

PN WO200110902-A2.

XX

PD 15-FEB-2001.

XX

XX

PF 11-AUG-2000; 2000MO-US021857.

XX

XX

PR 11-AUG-1999; 99US-0148433P.

XX

PR 10-AUG-2000; 2000US-00635949.

XX

XX

PA (CURA-) CURAGEN CORP.

XX

XX

PI Shimketa RA, Fernandes E;

XX

XX

DR WPI; 2001-147509/15.

XX

XX

PT Nucleic acids encoding secreted polypeptides, designated PROX

PT polypeptides, useful for treating a syndrome associated with a PROX-

PT associated disorder, e.g. cancer.

XX

XX

PS Example 2; Page 119; 166pp; English.

XX

CC The present invention describes isolated nucleic acids encoding secreted

CC polypeptides, designated PROX polypeptides (i.e. a PRO polypeptide where

CC X is an integer from 1 to 17). PROX polypeptides have cytostatic,

CC immunomodulatory and reproduction activities, and can be used in gene

CC therapy, and as PROX antagonists and PROX agonists. PROX polypeptides,

CC nucleic acids and antibodies are useful in the manufacture of a

CC medicament for treating a syndrome associated with a PROX-associated

CC disorder, e.g. a cell proliferation and/or differentiation disorder (e.g.

CC cancer or immune associated disorders) and a gestational disease (e.g.

CC pre-clampsia). They are also used for screening for a modulator of

CC activity or of latency or predispotion to a PROX-associated disorder.

CC AAF74432 to AAF74448 encode the specifically claimed human PROX

CC polypeptides PRO1 to PRO17 given in AAB70531 to AAB70547. The present

CC sequence represents a primer used in an example from the present

CC invention

XX

SO Sequence 18 BP; 1 A; 3 C; 8 G; 6 T; 0 U; 0 Other;

Query Match 46.0%; Score 13.8; DB 1; Length 18;

Best Local Similarity 88.2%; Pred. No. 9.5;

Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1481 CGACCAAGAGCCAGAC 1497

DB 17 CTACCAAGAGCCAGCC 1

RESULT 8

AAAX57566

ID AAX57566 standard; DNA; 15 BP.

XX AAX57566;

AC

XX

XX

DT 16-JUL-1999 (first entry)

XX

XX

DE Antisense oligo #5 to insulin-like growth factor I receptor.

XX

XX

KW Antisense; human; insulin-like growth factor-1 receptor; IGF-1R;

KW expression; inhibition; induction; apoptosis; tumour; liposome; ss.

XX

XX

OS Synthetic.

OS Homo sapiens.

XX

XX

PN WO9923259-A1.

XX

XX

PD 14-MAY-1999.

XX

XX

PF 03-NOV-1998; 98MO-US023418.

XX

XX

PR 04-NOV-1997; 97US-00963886.

XX

XX

PA (INEX-) INEX PHARM CORP.

XX

XX

PI Zon G;

XX

XX

DR WPI; 1999-313361/26.

XX

XX

PT Human insulin-like growth factor-1 receptor gene antisense

PT oligonucleotides.

XX

XX

PS Disclosure; Page 16; 23pp; English.

XX

XX

CC Sequences AAX57562-X57571 represent antisense oligonucleotides targeted

CC to a region spanning 4-9 codons downstream of the AUG translation

CC initiation codon of the human insulin-like growth factor-1 receptor (IGF-

CC 1R) gene. The antisense oligonucleotides inhibit the expression of IGF-

CC 1R, which in turn induces apoptosis, especially in a tumour cell. The

CC oligonucleotides can be administered via a liposome

XX

XX

SO Sequence 15 BP; 4 A; 4 C; 4 G; 3 T; 0 U; 0 Other;

Query Match 41.3%; Score 12.4; DB 1; Length 15;

Best Local Similarity 92.9%; Pred. No. 15;

Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1488 GAAGCCAGACTTCA 1501

DB 1 GGAGCCAGACTTCA 14

RESULT 9

AAFA9086/c

ID AAF49086 standard; DNA; 15 BP.

XX AAF49086;

XX 30-MAR-2001 (first entry)

XX IGF-I oligonucleotide #46.

XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;

XX cytoskeletal; dermatological; cardiant; virucide; ophthalmological; keloid;

XX skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pteryiasis;

XX IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;

XX growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba;

XX keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;

XX hyperneovascular condition; hyperplasia; kidney disease;

XX neovascular condition of the retina; ss.

XX Homo sapiens.

XX MO200078341-A1.

XX 28-DEC-2000.

XX 21-JUN-2000; 2000WO-AU000693.

XX 21-JUN-1999; 99US-0140345P.

XX (MURD-) MURDOCH CHILDRENS RES INST.

XX Wright CJ, Werther GA, Edmondson SR;

XX WPI; 2001-041421/05.

XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering

XX UV (ultra-violet) treatment (optional) and an antisense nucleic acid that

XX inhibits or reduces growth factor mediated cell proliferation and/or

XX inflammation.

XX Example 8; Page 61; 201pp; English.

XX The present invention relates to a method for ameliorating the effects of

XX skin disorders. The method comprises contacting the skin with an

XX antisense oligonucleotide, (for insulin-like Growth Factor [IGF]-1

XX receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of

XX inhibiting or reducing growth factor mediated cell proliferation,

XX inflammation and/or other disorders. The present sequence is an

XX oligonucleotide which can be used to design the antisense

XX oligonucleotides of the present invention (see AAF45151 and AAF45153-

XX F45161). The method is useful for ameliorating the effects of psoriasis,

XX ichthyosis, scleroderma, ruba, pilaris, serborrhoea, keloids, keratosis,

XX neoplasias, hyperneovascular condition such as a neovascular condition of the retina,

XX brain or skin, growth factor-mediated malignancies, other sclerotic

XX disease, kidney disease, hyperproliferation of the inside of blood

XX vessels or any other hyperplasia

XX Sequence 15 BP; 3 A; 4 C; 4 G; 4 T; 0 U; 0 Other;

XX Query Match 41.3%; Score 12.4; DB 1; Length 15;

XX Best Local Similarity 92.9%; Pred. No. 15;

XX Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

XX 1488 GAAGCCAGACTTCA 1501

XX 15 GGAGCCAGACTTCA 2

XX RESULT 10

XX AAF49087/c

ID AAF49087 standard; DNA; 15 BP.

XX AAF49087;

XX 30-MAR-2001 (first entry)

XX IGF-I oligonucleotide #47.

XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;

XX cytoskeletal; dermatological; cardiant; virucide; ophthalmological; keloid;

XX skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pteryiasis;

XX IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;

XX growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba;

XX keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;

XX hyperneovascular condition; hyperplasia; kidney disease;

XX neovascular condition of the retina; ss.

XX Homo sapiens.

XX MO200078341-A1.

XX 28-DEC-2000.

XX 21-JUN-2000; 2000WO-AU000693.

XX 21-JUN-1999; 99US-0140345P.

XX (MURD-) MURDOCH CHILDRENS RES INST.

XX Wright CJ, Werther GA, Edmondson SR;

XX WPI; 2001-041421/05.

XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering

XX UV (ultra-violet) treatment (optional) and an antisense nucleic acid that

XX inhibits or reduces growth factor mediated cell proliferation and/or

XX inflammation.

XX Example 8; Page 61; 201pp; English.

XX The present invention relates to a method for ameliorating the effects of

XX skin disorders. The method comprises contacting the skin with an

XX antisense oligonucleotide, (for insulin-like Growth Factor [IGF]-1

XX receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of

XX inhibiting or reducing growth factor mediated cell proliferation,

XX inflammation and/or other disorders. The present sequence is an

XX oligonucleotide which can be used to design the antisense

XX oligonucleotides of the present invention (see AAF45151 and AAF45153-

XX F45161). The method is useful for ameliorating the effects of psoriasis,

XX ichthyosis, scleroderma, ruba, pilaris, serborrhoea, keloids, keratosis,

XX neoplasias, hyperneovascular condition such as a neovascular condition of the retina,

XX brain or skin, growth factor-mediated malignancies, other sclerotic

XX disease, kidney disease, hyperproliferation of the inside of blood

XX vessels or any other hyperplasia

XX Sequence 15 BP; 2 A; 4 C; 5 G; 4 T; 0 U; 0 Other;

XX Query Match 41.3%; Score 12.4; DB 1; Length 15;

XX Best Local Similarity 92.9%; Pred. No. 15;

XX Matches 13; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

XX 1488 GAAGCCAGACTTCA 1501

XX 14 GGAGCCAGACTTCA 1

XX RESULT 11

XX AAZ64832/c

XX AAZ64832 standard; RNA; 14 BP.

```

DT 28-MAR-2000 (first entry)
XX Substrate for hairpin ribozyme which cleaves HCV at nt. 6599.
DE
XX Enzymatic nucleic acid; hammerhead ribozyme; virus replication; cleavage;
KM cirrhosis; liver failure; hepatocellular carcinoma; interferon; cancer;
XX autoimmune disease; ss.
XX Hepatitis C virus.
OS
XX WO955847-A2.
PN
XX 04-NOV-1999.
PD
XX 26-APR-1999; 99WO-US009027.
PF
XX 27-APR-1998; 98US-0083217P.
PR 18-SEP-1998; 98US-010842P.
PR 25-FEB-1999; 99US-00257608.
PR 23-MAR-1999; 99US-00274553.
XX
XX (RIBO-) RIBOZYME PHARM INC.
PI Blatt L, Mcswigen JA, Roberts E, Pavco PA, Macejak D;
XX WPI; 2000-062023/05.
XX
XX Novel ribozymes for the treatment of diseases and conditions related to
PT hepatitis C infection.
XX
XX Claim 2; Page 99; 123pp; English.
XX
XX The present sequence represents the preferred target sequence of an
CC enzymatic nucleic acid, especially a hairpin ribozyme, which cleaves the
CC Hepatitis C virus (HCV) RNA sequence at the base position given in the
CC descriptor line. The HCV sequence was screened for optimal ribozyme
CC target sites using a computer folding algorithm and regions of the RNA
CC which did not form secondary folding structures and contained potential
CC ribozyme cleavage sites were identified. Ribozymes were synthesised to
CC target these sites and their activities optimised by either varying the
CC length of the binding arms or by modification to prevent degradation by
CC nucleases. The ribozymes of the invention inhibit gene expression and/or
CC viral replication, and are used to treat diseases associated with
CC Hepatitis C virus (HCV) infection, e.g. cirrhosis, liver failure and
CC hepatocellular carcinoma. The ribozymes may be used in combination with
CC interferon to treat HCV infection, other infectious diseases, autoimmune
CC diseases, and cancer
CC
XX
SQ Sequence 14 BP; 3 A; 2 C; 6 G; 0 T; 3 U; 0 Other;
Query Match 40.0%; Score 12; DB 1; Length 14;
Best Local Similarity 100.0%; Pred. No. 16;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1497 CTTGACGACCCA 1508
DB 12 CTTGACGACCCA 1

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KM Interferon gamma; consensus interferon; hepatotropic; antiinflammatory;
XX substrate; hairpin ribozyme; HP ribozyme; ss.
XX Hepatitis C virus.
OS
XX US2002082225-A1.
PN
XX 27-JUN-2002.
PD
XX 23-MAR-1999; 99US-00274553.
PF
XX 23-MAR-1999; 99US-00274553.
PR 23-MAR-1999; 99US-00274553.
XX
XX (BLAT/) BLATT L.
PA (MCSW/) MCSWIGEN J A.
PA (ROBE/) ROBERTS B.
PA (PAVC/) PAVCO P A.
PA (MACE/) MACEJACK D.
XX
XX Blatt L, Mcswigen JA, Roberts B, Pavco PA, Macejack D;
PI WPI; 2002-617759/66.
XX
XX New ribozymes targeting RNA derived from hepatitis C virus inhibit viral
PT replication and are useful to treat hepatitis C virus infections and
PT cirrhosis, liver failure or hepatocellular carcinoma.
XX
XX Claim 2; Page 62; 80pp; English.
XX
XX The present invention relates to enzymatic nucleic acids which
CC specifically cleave RNA derived from Hepatitis C virus (HCV). The
CC enzymatic nucleic acid or ribozyme is in a hammerhead (HH) or hairpin
CC (HP) motif where the binding arms comprise sequences complementary to one
CC of the substrate sequences defined in the specification. The HCV
CC ribozymes are useful for modulating the expression and/or replication of
CC HCV. They can be used to treat cirrhosis, liver failure and/or
CC hepatocellular carcinoma. The HCV ribozymes are also useful for treating
CC a condition associated with HCV infection in conjunction with one or more
CC other drug therapies, particularly type I interferon, especially
CC interferon alpha, beta or gamma or consensus interferon. The present
CC sequence represents a substrate for a HCV hairpin (HP) ribozyme. Note:
CC Some of the sequence data for this patent did not form part of the
CC printed specification. The complete sequence data for this patent was
CC obtained in electronic format directly from the USPTO web site at
CC seqdata.uspto.gov/psipsoIDentry.html
CC
XX
SQ Sequence 14 BP; 3 A; 2 C; 6 G; 0 T; 3 U; 0 Other;
Query Match 40.0%; Score 12; DB 1; Length 14;
Best Local Similarity 100.0%; Pred. No. 16;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1497 CTTGACGACCCA 1508
DB 12 CTTGACGACCCA 1

```

```

RESULT 13
AAFA9084/C
ID AAF49084 standard; DNA; 15 BP.
XX
AC AAF49084;
XX
XX 30-MAR-2001 (first entry)
DE
XX IGF-1 oligonucleotide #44.
XX
XX Antisense therapy; antiproliferative; antiinflammatory; antiporiatic;
KM cytostatic; dermatological; cardiant; vituclide; ophthalmological; keloid;
KM skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pilyriasis;
KM IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
KM growth factor mediated cell proliferation; ichthyosis; seborrhea; ruba;
KM keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;

```

KW hyperneovascular condition; hyperplasia; kidney disease;
 KW neovascular condition of the retina; ss.
 XX Homo sapiens.
 OS
 XX
 XX WO200078341-A1.
 XX
 XX PD 28-DEC-2000.
 XX
 XX PF 21-JUN-2000; 2000MO-AU000693.
 XX
 XX PR 21-JUN-1999; 99US-0140345P.
 XX
 XX (MURD-) MURDOCH CHILDRENS RES INST.
 XX
 XX PI Wright CJ, Werther GA, Edmondson SR;
 XX WPI; 2001-041421/05.
 XX
 XX DR Ameliorating the effects of a disorder, e.g. psoriasis, by administering
 XX PT UV (ultra-violet) treatment (optional) and an antisense nucleic acid that
 XX PT inhibits or reduces growth factor mediated cell proliferation and/or
 XX PT inflammation.
 XX
 XX PS Example 8; Page 61; 201pp; English.
 XX
 XX CC The present invention relates to a method for ameliorating the effects of
 XX CC skin disorders. The method comprises contacting the skin with an
 XX CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
 XX CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
 XX CC inhibiting or reducing growth factor mediated cell proliferation,
 XX CC inflammation and/or other disorders. The present sequence is an
 XX CC oligonucleotide which can be used to design the antisense
 XX CC oligonucleotide of the present invention (see AAF45151 and AAF45153-
 XX CC F5161). The method is useful for ameliorating the effects of psoriasis,
 XX CC ichthyosis, pityriasis, ruba, pilaris, seborrhea, keloids, keratosis,
 XX CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
 XX CC hyperneovascular condition such as a neovascular condition of the retina,
 XX CC brain or skin, growth factor-mediated malignancies, other sclerotic
 XX CC disease, kidney disease, hyperproliferation of the inside of blood
 XX CC vessels or any other hyperplasia
 XX
 XX SQ Sequence 15 BP; 4 A; 2 C; 5 G; 4 T; 0 U; 0 Other;
 XX
 XX Query Match 40.0%; Score 12; DB 1; Length 15;
 XX Best Local Similarity 100.0%; Pred. No. 18;
 XX Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX
 XX QY 1490 AGCCAGACTTCA 1501
 XX Db |||||
 XX 15 AGCCAGACTTCA 4
 XX
 XX RESULT 14
 XX AAF49085/C
 XX ID AAF49085 standard; DNA; 15 BP.
 XX
 XX AC AAF49085;
 XX
 XX XX 30-MAR-2001 (first entry)
 XX DT IGF-1 oligonucleotide #45.
 XX DE
 XX XX
 XX KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
 KW cytostatic; dermatological; cardiac; virucide; ophthalmological; keloid;
 KW skin disorder; Insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
 KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
 KW growth factor mediated cell proliferation; ichthyosis; seborrhea; ruba;
 KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
 KW hyperneovascular condition; hyperplasia; kidney disease;
 KW neovascular condition of the retina; ss.
 XX
 XX OS Homo sapiens.

XX
 XX PN WO200078341-A1.
 XX
 XX PD 28-DEC-2000.
 XX
 XX PF 21-JUN-2000; 2000MO-AU000693.
 XX
 XX PR 21-JUN-1999; 99US-0140345P.
 XX
 XX (MURD-) MURDOCH CHILDRENS RES INST.
 XX
 XX PI Wright CJ, Werther GA, Edmondson SR;
 XX WPI; 2001-041421/05.
 XX
 XX DR Ameliorating the effects of a disorder, e.g. psoriasis, by administering
 XX PT UV (ultra-violet) treatment (optional) and an antisense nucleic acid that
 XX PT inhibits or reduces growth factor mediated cell proliferation and/or
 XX PT inflammation.
 XX
 XX PS Example 8; Page 61; 201pp; English.
 XX
 XX CC The present invention relates to a method for ameliorating the effects of
 XX CC skin disorders. The method comprises contacting the skin with an
 XX CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
 XX CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
 XX CC inhibiting or reducing growth factor mediated cell proliferation,
 XX CC inflammation and/or other disorders. The present sequence is an
 XX CC oligonucleotide which can be used to design the antisense
 XX CC oligonucleotide of the present invention (see AAF45151 and AAF45153-
 XX CC F5161). The method is useful for ameliorating the effects of psoriasis,
 XX CC ichthyosis, pityriasis, ruba, pilaris, seborrhea, keloids, keratosis,
 XX CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
 XX CC hyperneovascular condition such as a neovascular condition of the retina,
 XX CC brain or skin, growth factor-mediated malignancies, other sclerotic
 XX CC disease, kidney disease, hyperproliferation of the inside of blood
 XX CC vessels or any other hyperplasia
 XX
 XX SQ Sequence 15 BP; 4 A; 3 C; 4 G; 4 T; 0 U; 0 Other;
 XX
 XX Query Match 40.0%; Score 12; DB 1; Length 15;
 XX Best Local Similarity 100.0%; Pred. No. 18;
 XX Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 XX
 XX QY 1490 AGCCAGACTTCA 1501
 XX Db |||||
 XX 14 AGCCAGACTTCA 3
 XX
 XX RESULT 15
 XX AAT49619/C
 XX ID AAT49619 standard; RNA; 15 BP.
 XX
 XX AC AAT49619;
 XX
 XX XX 28-FEB-1997 (first entry)
 XX DT Human CERP HH ribozyme target sequence #477.
 XX DE
 XX XX
 XX KW Hammerhead ribozyme; cholesterol ester transfer protein; mRNA cleavage;
 KW neutral lipid transfer; plasma lipoprotein; atherosclerosis; atherectomy;
 KW reverse cholesterol transport; high density lipoprotein; therapy; CERP;
 KW familial hypercholesterolaemia; dyslipidaemia; hypolipidoproteinaemia;
 KW peripheral vascular disease; hyperbetalipoproteinaemia; RCT; inhibitor;
 KW angioplastic reagents; low density lipoprotein; diabetes; HDL; human;
 KW LDL; ss.
 XX
 XX OS Homo sapiens.
 XX
 XX PN WO9620279-A1.
 XX
 XX PD 04-JUL-1996.

PF 11-DEC-1995; 95WO-US016000.
 XX
 PR 23-DEC-1994; 94US-00363240.
 XX
 PA (RIBO-) RIBOZYME PHARM INC.
 PA (WARN) WARNER LAMBERT CO.
 XX
 PI Couture L, Stinchcomb D, Mcswigen J, Bisgaier C, Page M;
 XX MPI, 1996-321852/32.
 XX
 DR
 XX
 PT New ribozyme(s) for cleaving cholesterol ester transfer protein mRNA -
 PT useful for preventing or treating initial development, progression or
 PT regression of vascular diseases, esp. familial hypercholesterolaemia.
 PS
 PS Claim 4; Page 29; 72pp; English.
 XX
 XX AAT9608-T49863 represent target sequences for the human cholesterol
 CC ester transfer protein (CETP) hammerhead (HH) ribozymes (see AAT9881-
 CC T50137). CETP is a 74 kD glycoprotein that facilitates neutral lipid
 CC transfer between plasma lipoproteins. The numbering of the targets refers
 CC to the position of the cleavage site in full length CETP. The ribozyme
 CC binds to 5 nucleotides either side of this site, provided the sequence
 CC is immediately upstream. The ribozymes are able to cleave mRNA from the
 CC gene encoding CETP, thereby blocking synthesis and/or expression of the
 CC mRNA. By inhibiting CETP, the reverse cholesterol transport (RCT) pathway
 CC can be inhibited (or eliminated) thereby preventing the reduction in size
 CC density of the high density lipoproteins (HDL), prolonging HDL half life,
 CC and therefore increasing HDL levels. The ribozymes can be used to treat
 CC conditions associated with abnormal levels of CETP, specifically familial
 CC hypercholesterolaemia, atherosclerosis, peripheral vascular disease,
 CC hyperbetalipoproteinaemia, hypobetalipoproteinaemia, dyslipidaemia,
 CC vascular complications of diabetes, transplant, atherectomy and
 CC angioplastic restenosis. By inhibiting CETP, the levels of HDL and low
 CC density lipoproteins (LDL), and the HDL:LDL ratio are favourably altered
 CC (a decrease in LDL levels, and a corresponding increase in HDL levels).
 CC The HH ribozymes can also be used diagnostically to study genetic drift
 CC and mutations in diseased cells, and to detect CETP mRNA. As the HH
 CC ribozymes target specific regions of the CETP gene, they have low non-
 CC specific activity
 CC
 XX
 SQ Sequence 15 BP; 4 A; 3 C; 4 G; 0 T; 4 U; 0 Other;

Query Match 39.3%; Score 11.8; DB 1; Length 15;
 Best Local Similarity 86.7%; Pred. No. 19;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1488 GAAGCCAGACTTCAG 1502
 Db 15 GTAGCCATCTTCAG 1

RESULT 16
 AAF47839
 ID AAF47839 standard; DNA; 15 BP.
 XX
 AC AAF47839;
 XX
 DT 30-MAR-2001 (first entry)
 XX
 DE IGFBP3 oligonucleotide #1259.
 XX
 KW Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
 KW cytostatic; dermatological; cardiac; virucide; ophthalmological; keloid;
 KW skin disorder; insulin-like Growth Factor I receptor; IGF-1; ptyriasis;
 KW IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
 KW growth factor mediated cell proliferation; ichthyosis; serborrhoea; ruba;
 KW keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
 KW hyperneovascular condition; hyperplasia; kidney disease;
 KW neovascular condition of the retina; ss.
 XX
 XX Homo sapiens.
 OS
 XX

PN WO200078341-A1.
 XX
 XX 28-DEC-2000.
 XX
 XX 21-JUN-2000; 2000WO-AU000693.
 PF
 XX 21-JUN-1999; 99US-0140345P.
 PR
 XX (MURDOCH) MURDOCH CHILDRENS RES INST.
 PA
 XX Wright CJ, Werther GA, Edmondson SR;
 PI MPI, 2001-041421/05.
 XX
 DR
 XX
 PT Ameliorating the effects of a disorder, e.g. psoriasis, by administering
 PT UV (ultra-violet) treatment (optional) and an antisense nucleic acid that
 PT inhibits or reduces growth factor mediated cell proliferation and/or
 PT inflammation.
 PS
 PS Example 7; Page 52; 201pp; English.
 XX
 XX The present invention relates to a method for ameliorating the effects of
 CC skin disorders. The method comprises contacting the skin with an
 CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
 CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
 CC inhibiting or reducing growth factor mediated cell proliferation,
 CC inflammation and/or other disorders. The present sequence is an
 CC oligonucleotide which can be used to design the antisense
 CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
 CC F45161). The method is useful for ameliorating the effects of psoriasis,
 CC ichthyosis, pityriasis, ruba, pilaris, serborrhoea, keloids, keratosis,
 CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
 CC hyperneovascular condition such as a neovascular condition of the retina,
 CC brain or skin, growth factor-mediated malignancies, other sclerotic
 CC disease, kidney disease, hyperproliferation of the inside of blood
 CC vessels or any other hyperplasia
 CC
 XX
 SQ Sequence 15 BP; 5 A; 6 C; 2 G; 2 T; 0 U; 0 Other;

Query Match 39.3%; Score 11.8; DB 1; Length 15;
 Best Local Similarity 86.7%; Pred. No. 19;
 Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1487 AGAAGCCAGACTTCA 1501
 Db 1 AGCACCAGACTTCA 15

RESULT 17
 AAX57564
 ID AAX57564 standard; DNA; 15 BP.
 XX
 AC AAX57564;
 XX
 DT 16-JUL-1999 (first entry)
 XX
 DE Antisense oligo #3 to insulin-like growth factor I receptor.
 XX
 KW Antisense; human; insulin-like growth factor-1 receptor; IGF-1R;
 KW expression; inhibition; induction; apoptosis; tumour; liposome; ss.
 XX
 OS Synthetic.
 OS Homo sapiens.
 XX
 XX WO9923259-A1.
 PN
 XX 14-MAY-1999.
 PD
 PF 03-NOV-1998; 98WO-US023418.
 XX
 PR 04-NOV-1997; 97US-00963886.
 XX
 XX (INEX-) INEX PHARM CORP.

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XX Zon G;
PI
XX
XX WPI; 1999-313361/26.
DR
XX Human insulin-like growth factor-1 receptor gene antisense
PT oligonucleotides.
PS
XX Disclosure; Page 15; 23pp; English.
XX
XX Sequences AAX57562-X57571 represent antisense oligonucleotides targeted
CC to a region spanning 4-9 codons downstream of the AUG translation
CC initiation codon of the human insulin-like growth factor-1 receptor (IGF-
CC 1R) gene. The antisense oligonucleotides inhibit the expression of IGF-
CC 1R, which in turn induces apoptosis, especially in a tumour cell. The
CC oligonucleotides can be administered via a liposome
XX
XX Sequence 15 BP; 3 A; 6 C; 4 G; 2 T; 0 U; 0 Other;
SQ
Query Match 38.0%; Score 11.4; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 23;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 1488 GAGGCCGAGCTTC 1500
Db 3 GAGGCCGAGCTTC 15
| | | | | | | | | |
| | | | | | | | | |
RESULT 18
AAZ35973
ID AAZ35973 standard; DNA, 15 BP.
XX
XX AAZ35973;
AC
XX 09-FEB-2000 (first entry)
DT
XX
XX Histoplasma capsulatum M antigen degenerate PCR primer M4F.
DE
XX
XX Histoplasma capsulatum; fungus; M antigen; vaccine; detection;
KM histoplasmosis; diagnosis; infection; antimicrobial; antibody;
KM PCR primer; ss.
XX
XX Synthetic.
OS
XX Ajellomyces capsulatus.
OS
XX
XX WO9955874-A2.
XX
XX 04-NOV-1999.
XX
XX 27-APR-1999; 99WO-US009151.
XX
XX 30-APR-1998; 98US-0083676P.
XX
XX (USSH ) US DEPT HEALTH & HUMAN SERVICES.
PA
XX
XX Zancoppe-Oliveira RM, Lott TJ, Mayer LW, Reiss E, Deepe GS;
PI WPI; 2000-023360/02.
XX
XX New isolated Histoplasma capsulatum nucleic acids, used to develop
PT products for the diagnosis, prevention and treatment of histoplasmosis.
XX
XX Example 1; Page 49; 75pp; English.
XX
XX The present sequence represents a degenerate PCR primer for the M antigen
CC isolated from Histoplasma capsulatum (HC). HC polypeptides can be used
CC for detecting antibodies for detecting a previous or current HC infection
CC in a subject. They can also be injected into the skin of a subject to
CC detect past exposure to HC by detecting swelling of the skin. The
CC antibodies can be used for detecting current HC infection in a subject.
CC HC nucleic acids and polypeptides can also be used for the treatment of
CC histoplasmosis as well as in vaccines for the prevention of
CC histoplasmosis

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XX
XX Sequence 15 BP; 5 A; 2 C; 1 G; 2 T; 0 U; 5 Other;
SQ
Query Match 38.0%; Score 11.4; DB 1; Length 15;
Best Local Similarity 66.7%; Pred. No. 23;
Matches 10; Conservative 4; Mismatches 1; Indels 0; Gaps 0;
OY 1486 AAGAGCCGAGCTTC 1500
Db 1 AAGAGCCGAGCTTC 15
| | | | | | | | | |
| | | | | | | | | |
RESULT 19
AAF49088/c
ID AAF49088 standard; DNA, 15 BP.
XX
XX AAF49088;
AC
XX
XX 30-MAR-2001 (first entry)
DT
XX
XX IGF-1 oligonucleotide #48.
DE
XX
XX Antisense therapy; antiproliferative; antiinflammatory; antipsoriatic;
KM cytostatic; dermatological; cardiac; virucide; ophthalmological; keloid;
KM skin disorder; insulin-like Growth Factor 1 receptor; IGF-1; pityriasis;
KM IGF binding protein; IGFBP-2; IGFBP3; inflammation; psoriasis; pilaris;
KM growth factor mediated cell proliferation; ichthyosis; seborrhoea; ruba;
KM keratosis; neoplasia; scleroderma; wart; skin cancer; sclerotic disease;
KM hyperneovascular condition; hyperplasia; kidney disease;
KM neovascular condition of the retina; ss.
XX
XX Homo sapiens.
OS
XX
XX WO200078341-A1.
XX
XX 28-DEC-2000.
XX
XX 21-JUN-2000; 2000WO-AU000693.
XX
XX 21-JUN-1999; 99US-0140345P.
XX
XX (MURD-) MURDOCH CHILDRENS RES INST..
PA
XX
XX Wright CJ, Wertner GA, Edmondson SR;
PI WPI; 2001-041421/05.
XX
XX Ameliorating the effects of a disorder, e.g. psoriasis, by administering
PT UV (ultra-violet) treatment (optional) and an antisense nucleic acid that
PT inhibits or reduces growth factor mediated cell proliferation and/or
PT inflammation.
XX
XX Example 8; Page 61; 201pp; English.
XX
XX The present invention relates to a method for ameliorating the effects of
CC skin disorders. The method comprises contacting the skin with an
CC antisense oligonucleotide, (for Insulin-like Growth Factor [IGF]-1
CC receptor, IGF binding protein [IGFBP]-2 or IGFBP3), which is capable of
CC inhibiting or reducing growth factor mediated cell proliferation,
CC inflammation and/or other disorders. The present sequence is an
CC oligonucleotide which can be used to design the antisense
CC oligonucleotides of the present invention (see AAF45151 and AAF45153-
CC F45161). The method is useful for ameliorating the effects of psoriasis,
CC ichthyosis, pityriasis, ruba, pilaris, seborrhoea, keloids, keratosis,
CC neoplasias, scleroderma, warts, benign growths, cancers of the skin, a
CC hyperneovascular condition such as a neovascular condition of the retina,
CC brain or skin, growth factor-mediated malignancies, inside sclerotic
CC disease, kidney disease, hyperproliferation of the insides of blood
CC vessels or any other hyperplasia
XX
XX Sequence 15 BP; 2 A; 4 C; 6 G; 3 T; 0 U; 0 Other;
SQ
Query Match 38.0%; Score 11.4; DB 1; Length 15;

```


Best Local Similarity 92.3%; Pred. No. 23;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1488 GAGCCAGACTTC 1500
DB 13 GGAGCCGAGACTTC 1

RESULT 20
AAZ64816/C
ID AAZ64816 standard; RNA; 14 BP.

XX AAZ64816;

DT 28-MAR-2000 (first entry)

DE Substrate for hairpin ribozyme which cleaves HCV at nt. 5792.

XX Enzymatic nucleic acid; hammerhead ribozyme; virus replication; cleavage;
KM cirrhosis; liver failure; hepatocellular carcinoma; interferon; cancer;
KM autoimmune disease; ss.

XX Hepatitis C virus.

OS WO955847-A2.

XX 04-NOV-1999.

PD 26-APR-1999; 99MO-US009027.

XX 27-APR-1998; 98US-0083217P.

PR 18-SEP-1998; 98US-0100842P.

PR 25-FEB-1999; 99US-00257608.

PR 23-MAR-1999; 99US-00274553.

XX (RIBO-) RIBOZYME PHARM INC.

PI Blatt L, Mcswigen JA, Roberts E, Pavco PA, Macejak D;

XX WPI; 2000-062023/05.

PT Novel ribozymes for the treatment of diseases and conditions related to

XX hepatitis C infection.

PS Claim 2; Page 98; 123pp; English.

XX The present sequence represents the preferred target sequence of an

XX enzymatic nucleic acid, especially a hairpin ribozyme, which cleaves the

XX Hepatitis C virus (HCV) RNA sequence at the base position given in the

XX descriptor line. The HCV sequence was screened for optimal ribozyme

XX target sites using a computer folding algorithm and regions of the RNA

XX which did not form secondary folding structures and contained potential

XX ribozyme cleavage sites were identified. Ribozymes were synthesised to

XX target these sites and their activities optimised by either varying the

XX length of the binding arms or by modification to prevent degradation by

XX nucleases. The ribozymes of the invention inhibit gene expression and/or

XX viral replication, and are used to treat diseases associated with

XX Hepatitis C virus (HCV) infection, e.g. cirrhosis, liver failure and

XX hepatocellular carcinoma. The ribozymes may be used in combination with

XX interferon to treat HCV infection, other infectious diseases, autoimmune

XX diseases, and cancer

XX Sequence 14 BP; 2 A; 5 C; 3 G; 0 T; 4 U; 0 Other;

XX Query Match 36.0%; Score 10.8; DB 1; Length 14;

XX Best Local Similarity 85.7%; Pred. No. 27;

XX Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1495 GACTTCAGCAGCCA 1508

DB 14 GAGTTGAGCAGCCA 1

RESULT 21
AAA99958/C
ID AAA99958 standard; DNA; 14 BP.

XX AAA99958;

DT 15-SEP-2003 (revised)

DT 25-JAN-2001 (first entry)

DE Geminivirus Rep repeat motif sequence #3.

XX Geminivirus; replication associated protein; rep; iteron; antagonists;

XX plant; ss.

OS Geminiviridae.

XX WO200043494-A2.

XX 27-JUL-2000.

XX 27-JAN-2000; 2000MO-US001849.

XX 26-JAN-1999; 99US-0117285P.

XX (SCRI) SCRIPPS RES INST.

XX Faugnet C, Chatterji A;

XX WPI; 2000-499224/44.

XX Producing plants resistant to geminivirus, and inhibiting geminivirus

XX replication in plants, by introducing replication associated protein

XX iteron antagonists into the plant, plant cells or propagules.

XX Example 1; Page 51; 172pp; English.

XX The present invention relates to methods for producing plants resistant

XX to geminivirus, involving introducing a geminivirus replication

XX associated protein (Rep)-iteron antagonist into a plant. The antagonist

XX is a nucleotide sequence of a geminivirus iteron capable of binding to a

XX Rep protein or a defective Rep which has a conserved geminivirus iteron

XX binding site. The present sequence is a geminivirus Rep repeat motif

XX sequence. (Updated on 15-SEP-2003 to standardise OS field)

XX Sequence 14 BP; 1 A; 3 C; 6 G; 4 T; 0 U; 0 Other;

XX Query Match 36.0%; Score 10.8; DB 1; Length 14;

XX Best Local Similarity 85.7%; Pred. No. 27;

XX Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1487 AGAGCCGAGACTTC 1500

DB 14 AGAGCCGAGACTTC 1

RESULT 22
ABX01653/C

XX ABX01653 standard; RNA; 14 BP.

XX 23-DEC-2002 (first entry)

XX Hepatitis C virus substrate #138 for HCV hairpin ribozyme #138.

XX Enzymatic nucleic acid; RNA cleavage; Hepatitis C virus infection;

XX HCV ribozyme; HCV expression; HCV replication; cirrhosis; virucide;

XX liver failure; hepatocellular carcinoma; HCV infection; drug therapy;

XX type I interferon; interferon alpha; interferon beta; cytosolic;

XX interferon gamma; consensus interferon; hepatotropic; antiinflammatory;

XX substrate; hairpin ribozyme; HP ribozyme; ss.

XX Hepatitis C virus.

XX	PN	US2002082225-A1.
XX	PD	27-JUN-2002.
XX	PF	23-MAR-1999; 99US-00274553.
XX	PR	23-MAR-1999; 99US-00274553.
XX	PA	(BLAT/) BLATT L.
XX	PA	(MCSWIGEN) MCSWIGEN J A.
XX	PA	(ROBE/) ROBERTS B.
XX	PA	(PACV/) PAVCO P A.
XX	PA	(MACE/) MACEJACK D.
XX	PI	Blatt L, Mcswigen JA, Roberts B, Pavco PA, Macejack D;
XX	DR	WPI; 2002-617759/66.
XX	PT	New ribozymes targeting RNA derived from hepatitis C virus inhibit viral
XX	PT	replication and are useful to treat hepatitis C virus infections and
XX	PT	cirrhosis, liver failure or hepatocellular carcinoma.
XX	PS	Claim 2; Page 62; 80pp; English.
CC	CC	The present invention relates to enzymatic nucleic acids which
CC	CC	specifically cleave RNA derived from Hepatitis C virus (HCV). The
CC	CC	enzymatic nucleic acid or ribozyme is in a hammerhead (HH) or hairpin
CC	CC	(HP) motif where the binding arms comprise sequences complementary to one
CC	CC	of the substrate sequences defined in the specification. The HCV
CC	CC	ribozymes are useful for modulating the expression and/or replication of
CC	CC	HCV. They can be used to treat cirrhosis, liver failure and/or
CC	CC	hepatocellular carcinoma. The HCV ribozymes are also useful for treating
CC	CC	a condition associated with HCV infection in conjunction with one or more
CC	CC	other drug therapies, particularly type I interferon, especially
CC	CC	interferon alpha, beta or gamma or consensus interferon. The present
CC	CC	sequence represents a substrate for a HCV hairpin (HP) ribozyme. Note:
CC	CC	Some of the sequence data for this patent did not form part of the
CC	CC	printed specification. The complete sequence data for this patent was
CC	CC	obtained in electronic format directly from the USPTO web site at
CC	CC	seqdata.uspto.gov/patidentry.html
SQ	SQ	Sequence 14 BP; 2 A; 5 C; 3 G; 0 T; 4 U; 0 Other;
OY	OY	Query Match 36.0%; Score 10.8; DB 1; Length 14;
DB	DB	Best Local Similarity 85.7%; Pred. No. 27;
		Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0
		1495 GACTTCAGCAGCA 1508
		14 GAGTTGAGCAGCA 1
RESULT 23		
ID	ABF18234/C	
XX	ABF18234 standard; DNA; 13 BP.	
AC	ABF18234;	
DT	21-FEB-2002 (first entry)	
DE	Oligonucleotide SEQ ID NO 118231 for detecting SNP TSC0029560.	
KM	SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;	
KM	peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;	
XX	central nervous system; gastrointestinal; respiratory; immune; metabolic.	
OS	Homo sapiens.	
PN	WO200177384-A2.	
PD	18-OCT-2001.	

XX	06-APR-2001; 2001WO-1B000713.	XX
XX	07-APR-2000; 2000DE-01019173.	XX
XX	(EPIC-) EPIGENOMICS AG.	XX
PA	Olek A, Piepenbrock C, Berlin K;	PA
XX	WPI; 2001-657177/75.	XX
XX		XX
PT	Set of oligonucleotides, useful for diagnosis and cell typing, is	PT
PT	designed to detect single-nucleotide polymorphisms and cytosine	PT
PT	methylation status.	PT
XX		XX
PS	Claim 1; SEQ ID NO 118231; 29bp + Sequence Listing; German.	PS
XX		XX
CC	This invention describes novel oligonucleotide primers or peptide nucleic	CC
CC	acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)	CC
CC	and cytosine methylation status in chemically pretreated genomic DNA. The	CC
CC	range of diseases including immune system, gastrointestinal, respiratory,	CC
CC	central nervous system, cardiovascular and metabolic disorders. The	CC
CC	oligomers are also used for detecting cell type differentiation. ABC00010	CC
CC	-AB099989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073	CC
CC	represent the oligomers described in the invention. NOTE: The sequence	CC
CC	data for this patent did not form part of the printed specification, but	CC
CC	was obtained in electronic format from WIPO at	CC
XX	ftp.wipo.int/pub/published_pct_sequences	XX
XX		XX
SQ	Sequence 13 BP; 0 A; 1 C; 5 G; 7 T; 0 U; 0 Other;	SQ
	Query Match 34.7%; Score 10.4; DB 1; Length 13;	
	Best Local Similarity 91.7%; Pred. No. 30;	
	Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0.	
QY	1479 CAGCAGCCAAAGAA 1490	
DB	13 CAGCAGCCAAAA 2	
RESULT 24		
ABF18235		
ID	ABF18235 standard; DNA; 13 BP.	
XX		
AC	ABF18235;	
XX		
DT	21-FEB-2002 (first entry)	
XX		
DE	Oligonucleotide SEQ ID NO 118232 for detecting SNP TSC0029560.	
XX		
SNP	SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;	
XX	peptide nucleic acid; cytosine methylation; cardiovascular; primer; se;	
KM	central nervous system; gastrointestinal; respiratory; immune; metabolic.	
XX		
OS	Homo sapiens.	
XX		
PN	WO20017384-A2.	
XX		
PD	18-OCT-2001.	
XX		
PF	06-APR-2001; 2001WO-IB000713.	
XX		
PR	07-APR-2000; 2000DE-01019173.	
XX		
PA	(EPIC-) EPIGENOMICS AG.	
XX		
P1	Olek A, Piepenbrock C, Berlin K;	
XX	WPI; 2001-657177/75.	
XX		
PT	Set of oligonucleotides, useful for diagnosis and cell typing, is	
PT	designed to detect single-nucleotide polymorphisms and cytosine	
PT	methylation status.	

XX Claim 1; SEQ ID NO 118232; 29bp + Sequence Listing; German.
PS
XX
CC This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB102073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 13 BP; 7 A; 5 C; 1 G; 0 T; 0 U; 0 Other;

Query Match 34.7%; Score 10.4; DB 1; Length 13;
Best Local Similarity 91.7%; Pred. No. 30;
Matches 11; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1479 CACGACCAAGAA 1490
Db 1 CACGACCAAGAA 12

RESULT 25
AAZ78899
ID AAZ78899 standard; DNA; 10 BP.
XX
AC AAZ78899;
XX
DT 10-APR-2000 (first entry)
XX
DE Human dendritic cell SAGE tag, SEQ ID NO:1327.
XX
XX SAGE tag; serial analysis of gene expression; antigen-presenting cell;
KW APC; monocyte-derived dendritic cell; differential gene expression;
KW immunostimulatory cofactor; costimulatory factor; CTL;
KW cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.
XX
OS Homo sapiens.
XX
XX WO965924-A2.
PN
XX
PD 23-DEC-1999.
XX
PF 18-JUN-1999; 99WO-US013800.
XX
XX
PR 19-JUN-1998; 98US-0089833P.
PR 19-JUN-1998; 98US-0089844P.
PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089878P.
PR 19-JUN-1998; 98US-0089919P.
PR 19-JUN-1998; 98US-0089922P.
PR 19-JUN-1998; 98US-0089933P.
PR 19-JUN-1998; 98US-0089939P.
PR 19-JUN-1998; 98US-0089979P.
PR 19-JUN-1998; 98US-0089999P.
PR 19-JUN-1998; 98US-0090000P.
PR 19-JUN-1998; 98US-0090035P.
PR 19-JUN-1998; 98US-0090036P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
PR 19-JUN-1998; 98US-0090042P.
PR 19-JUN-1998; 98US-0090043P.
PR 19-JUN-1998; 98US-0090044P.
PR 19-JUN-1998; 98US-0090045P.
PR 19-JUN-1998; 98US-0090047P.
PR 19-JUN-1998; 98US-0090048P.
PR 19-JUN-1998; 98US-0090072P.

PR 19-JUN-1998; 98US-0090076P.
PR 19-JUN-1998; 98US-0090077P.
PR 19-JUN-1998; 98US-0090078P.
PR 19-JUN-1998; 98US-0090079P.
PR 19-JUN-1998; 98US-0090080P.
PR 08-DEC-1998; 98US-0111715P.
XX
PA (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
PI Roberts BL, Shankara S;
XX
DR WPI; 2000-106077/09.
XX
PT Isolated polynucleotides differentially expressed in antigen-presenting
XX cells, useful in gene vaccines against cancer.
XX
PS Claim 1; Page 103; 130pp; English.
XX
XX Sequences AAZ7573-279709 represent SAGE (serial analysis of gene
CC expression) tags used to identify mRNA transcripts encoding
CC immunostimulatory cofactor proteins which are preferentially or
CC differentially expressed in monocyte-derived dendritic cells compared
CC with monocytes. Some of the transcripts correspond to known genes or ESTs
CC (expressed sequence tags) which were previously unknown to be
CC preferentially or differentially expressed in dendritic cells, while
CC other transcripts correspond to novel genes. Antigen-presenting cell
CC (APC)-associated costimulatory factors play an important role in the
CC activation of the cytotoxic immune response, particularly against tumour
CC cells. Tumour antigen presentation via the MHC (major histocompatibility
CC complex) and subsequent recognition by T-cell receptors is alone
CC insufficient to activate a robust cytotoxic immune response that can lyse
CC the tumour cells, immunostimulatory cofactors also being required for
CC efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid
CC sequences identified using the SAGE tags have several potential uses.
CC They may be used in vaccines to induce an immune response, particularly
CC against a tumour antigen; to modulate the genotype of an APC; to screen
CC for agents that modulate expression of differentially expressed genes in
CC an APC; and as hybridisation probes/amplification primers for the
CC diagnosis, prognosis and monitoring of diseases related to abnormal
CC expression of these genes. Detection of the dendritic cell differentially
CC expressed genes, or of their encoded proteins, can be used to identify
CC cells as belonging to the monocyte lineage. Cells containing these genes
CC can be used in active immunotherapy (or to stimulate production of a
CC population of antigen-specific effector cells) and vectors containing
CC them are used in gene therapy. Co-administration of tumour antigens and
CC APC-associated costimulatory factors ensures adequate antigen
CC presentation to endogenous APCs and upregulates the APCs for the
CC secretion of co-stimulatory signals, migration to T cell-rich sites,
CC recruitment of immune effector cells
XX
SQ Sequence 10 BP; 5 A; 2 C; 3 G; 0 T; 0 U; 0 Other;

Query Match 33.3%; Score 10; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 28;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1487 AGAAGCCAGA 1496
Db 1 AGAAGCCAGA 10

RESULT 26
AAZ83653/c
ID AAZ83653 standard; DNA; 10 BP.
XX
XX
AC AAZ83653;
XX
DT 07-APR-2000 (first entry)
XX
DE Metastatic breast tumour cell upregulated transcript tag #2887.

```

XX  Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KW  non-metastatic breast tumour tissue; gene therapy; anticancer;
KM  antimetastatic; vaccine; diagnosis; ss.
XX
OS  Homo sapiens.
XX
PN  WO965928-A2.
XX
PD  23-DEC-1999.
XX
PF  18-JUN-1999; 99WO-US013647.
XX
PR  19-JUN-1998; 98US-0089853P.
PR  19-JUN-1998; 98US-0089997P.
PR  19-JUN-1998; 98US-0090039P.
PR  19-JUN-1998; 98US-0090040P.
PR  19-JUN-1998; 98US-0090041P.
XX
PA  (GENZ ) GENZYME CORP.
PA  (ROBE/) ROBERTS B L.
PA  (SHAN/) SHANKARA S.
XX
PI  Roberts BL, Shankara S;
XX
DR  WPI; 2000-106079/09.
XX
PT  Isolated polynucleotides differentially expressed between metastatic and
PT  non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT  treatment of cancer.
XX
PS  Claim 1; Page 136; 219pp; English.
XX
CC  AA280767 to AA283941 represent tags corresponding to distinct transcripts
CC  that are preferentially transcribed in the metastatic breast tumour
CC  tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942
CC  to AA286677 represent tags corresponding to distinct transcripts that are
CC  preferentially transcribed in the primary or non-metastatic breast tumour
CC  tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC  transcripts can be used for diagnosis, prognosis, monitoring and
CC  treatment of breast cancer, particularly where metastatic. Diagnosis is
CC  by standard immunoassays or hybridisation/amplification reactions.
CC  Compounds that modulate expression of the transcripts are potentially
CC  useful for treatment of (metastatic) breast cancer, while promoters from
CC  the transcripts are used to direct expression, in selected cell types, of
CC  e.g. therapeutic genes (also ribozymes or antisense sequences),
CC  particularly an antigen-encoding sequence for use in gene or cell-based
CC  vaccines. Polypeptides encoded by the transcripts are also useful in
CC  vaccines; for diagnosing breast cancer and for raising specific
CC  antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC  agents. Host cells that produce the polypeptides can be used to expand
CC  and isolate populations of educated, antigen-specific immune effector
CC  cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC  immunotherapy
XX
SQ  Sequence 10 BP; 2 A; 2 C; 3 G; 3 T; 0 U; 0 Other;
XX
QY  Query Match 33.3%; Score 10; DB 1; Length 10;
XX  Best Local Similarity 100.0%; Pred. No. 28;
XX  Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
Db  1496 ACTTCAGCAG 1505
XX  |||||||
XX  10 ACTTCAGCAG 1
XX
RESULT 27
AAF39527
ID  AAF39527 standard; DNA; 10 BP.
XX
AC  AAF39527;
XX
XX  23-MAR-2001 (first entry)

```

```

XX  Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:6266.
DE
XX  Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KW  nor previously assigned open reading frame; nonannotated ORF; SAGE;
KM  serial analysis of gene expression; antifungal; tag; identification;
KM  linker; PCR primer; ds.
XX
OS  Saccharomyces cerevisiae.
XX
PN  WO200077214-A2.
XX
PD  21-DEC-2000.
XX
PF  14-JUN-2000; 2000MO-US016223.
XX
PR  16-JUN-1999; 99US-00335032.
XX
XX  (UYJO ) UNIV JOHNS HOPKINS.
XX
PA  Velculescu V, Vogelstein B, Kinzler K;
XX
DR  WPI; 2001-061874/07.
XX
PT  Yeast gene coding sequences comprising NORF genes with serial analysis of
PT  gene expression (SAGE) tags, useful for studying, monitoring and
PT  affecting phases of the cell cycle.
XX
PS  Example; Page 223; 419pp; English.
XX
CC  The present invention describes an isolated DNA molecule comprising a
CC  coding sequence of a yeast gene selected from a group of 745 NORF (not
CC  previously assigned open reading frame; or nonannotated ORF) genes
CC  comprising a SAGE (serial analysis of gene expression) tag. Also
CC  described are: (1) a method (M1) of using NORF genes to affect the cell
CC  cycle comprising administering a NORF gene whose expression varies by at
CC  least 10% between any two phases of the cell cycle selected from log
CC  phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC  antifungal drugs comprising: (a) contacting a test substance with a yeast
CC  cell; and (b) monitoring expression of a NORF gene whose expression
CC  varies as in M1, where a test substance which modifies the expression of
CC  the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC  identifying human genes which are involved in cell cycle progression
CC  comprising contacting human DNA with a probe which comprises at least 10
CC  contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC  and (4) a method (M4) for identifying a candidate drug as a member of a
CC  class of drugs having a characteristic effect on gene expression in a
CC  yeast cell comprising contacting a yeast cell with a candidate drug and
CC  monitoring expression in the yeast cell of at least 1 NORF gene whose
CC  expression is affected by the class of drugs. The NORF genes may be used
CC  to study, monitor and affect phases of the cell cycle, the differentially
CC  expressed genes may be used as markers of phases of the cell cycle. The
CC  methods may be used to identify candidate drugs which affect the cell
CC  cycle and for identification of antifungal drugs. AAF33268 to AAF4064
CC  represent SAGE tags used in the exemplification of the present invention.
CC  AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC  method, in the exemplification of the present invention
XX
SQ  Sequence 10 BP; 5 A; 2 C; 3 G; 0 T; 0 U; 0 Other;
XX
QY  Query Match 33.3%; Score 10; DB 1; Length 10;
XX  Best Local Similarity 100.0%; Pred. No. 28;
XX  Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
Db  1487 AGAAGCCAGA 1496
XX  |||||||
XX  1 AGAAGCCAGA 10
XX
RESULT 28
AAF34162
ID  AAF34162 standard; DNA; 10 BP.
XX
XX

```

```
AC AAF34162;
XX
XX 23-MAR-2001 (first entry)
XX
XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:901.
DE
XX
XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KM nor previously assigned open reading frame; nonannotated ORF; SAGE;
KW serial analysis of gene expression; antifungal; tag; identification;
XX linker; PCR primer; ds.
XX
XX Saccharomyces cerevisiae.
OS
XX WO200077214-A2.
XX
XX 21-DEC-2000.
XX
XX 14-JUN-2000; 2000MO-US016223.
XX
XX 16-JUN-1999; 99US-00335032.
XX
XX (UYGO ) UNIV JOHNS HOPKINS.
XX
XX Velculescu V, Vogelstein B, Kinzler K;
XX WPI, 2001-061874/07.
XX
XX Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.
XX
XX Example; Page 32; 419p; English.
XX
XX The present invention describes an isolated DNA molecule comprising a
XX coding sequence of a yeast gene selected from a group of 745 NORF (not
XX previously assigned open reading frame; or nonannotated ORF) genes
XX comprising a SAGE (serial analysis of gene expression) tag. Also
XX described are: (1) a method (M1) of using NORF genes to affect the cell
XX cycle comprising administering a NORF gene whose expression varies by at
XX least 10% between any two phases of the cell cycle selected from log
XX phase, S phase and G2/M; (2) a method (M2) for screening candidate
XX antifungal drugs comprising: (a) contacting a test substance with a yeast
XX cell; and (b) monitoring expression of a NORF gene whose expression
XX varies as in M1, where a test substance which modifies the expression of
XX the yeast gene is a candidate antifungal drug; (3) a method (M3) for
XX identifying human genes which are involved in cell cycle progression
XX comprising contacting human DNA with a probe which comprises at least 10
XX contiguous nucleotides of a NORF gene whose expression varies as in M1;
XX and (4) a method (M4) for identifying a candidate drug as a member of a
XX class of drugs having a characteristic effect on gene expression in a
XX yeast cell comprising contacting a yeast cell with a candidate drug and
XX monitoring expression in the yeast cell of at least 1 NORF gene whose
XX expression is affected by the class of drugs. The NORF genes may be used
XX to study, monitor and affect phases of the cell cycle, the differentially
XX expressed genes may be used as markers of phases of the cell cycle. The
XX methods may be used to identify candidate drugs which affect the cell
XX cycle and for identification of antifungal drugs. AAF3268 to AAF44064
XX represent SAGE tags used in the exemplification of the present invention.
XX AAF3262 to AAF33267 represent linkers and PCR primers used in the SAGE
XX method, in the exemplification of the present invention
XX
XX Sequence 10 BP; 5 A; 2 C; 3 G; 0 T; 0 U; 0 Other;
SQ
XX
XX Query Match 33.3%; Score 10; DB 1; Length 10;
XX Best Local Similarity 100.0%; Pred. No. 28;
XX Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1486 AAGAAGCCAG 1495
XX |||||
DB 1 AAGAAGCCAG 10
```

```
AAF39463
XX ID . AAF39463 standard; DNA; 10 BP.
XX
XX AAF39463;
XX
XX 23-MAR-2001 (first entry)
XX
XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:6202.
DE
XX
XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KM nor previously assigned open reading frame; nonannotated ORF; SAGE;
KW serial analysis of gene expression; antifungal; tag; identification;
XX linker; PCR primer; ds.
XX
XX Saccharomyces cerevisiae.
OS
XX WO200077214-A2.
XX
XX 21-DEC-2000.
XX
XX 14-JUN-2000; 2000MO-US016223.
XX
XX 16-JUN-1999; 99US-00335032.
XX
XX (UYGO ) UNIV JOHNS HOPKINS.
XX
XX Velculescu V, Vogelstein B, Kinzler K;
XX WPI, 2001-061874/07.
XX
XX Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.
XX
XX Example; Page 221; 419p; English.
XX
XX The present invention describes an isolated DNA molecule comprising a
XX coding sequence of a yeast gene selected from a group of 745 NORF (not
XX previously assigned open reading frame; or nonannotated ORF) genes
XX comprising a SAGE (serial analysis of gene expression) tag. Also
XX described are: (1) a method (M1) of using NORF genes to affect the cell
XX cycle comprising administering a NORF gene whose expression varies by at
XX least 10% between any two phases of the cell cycle selected from log
XX phase, S phase and G2/M; (2) a method (M2) for screening candidate
XX antifungal drugs comprising: (a) contacting a test substance with a yeast
XX cell; and (b) monitoring expression of a NORF gene whose expression
XX varies as in M1, where a test substance which modifies the expression of
XX the yeast gene is a candidate antifungal drug; (3) a method (M3) for
XX identifying human genes which are involved in cell cycle progression
XX comprising contacting human DNA with a probe which comprises at least 10
XX contiguous nucleotides of a NORF gene whose expression varies as in M1;
XX and (4) a method (M4) for identifying a candidate drug as a member of a
XX class of drugs having a characteristic effect on gene expression in a
XX yeast cell comprising contacting a yeast cell with a candidate drug and
XX monitoring expression in the yeast cell of at least 1 NORF gene whose
XX expression is affected by the class of drugs. The NORF genes may be used
XX to study, monitor and affect phases of the cell cycle, the differentially
XX expressed genes may be used as markers of phases of the cell cycle. The
XX methods may be used to identify candidate drugs which affect the cell
XX cycle and for identification of antifungal drugs. AAF3268 to AAF44064
XX represent SAGE tags used in the exemplification of the present invention.
XX AAF3262 to AAF33267 represent linkers and PCR primers used in the SAGE
XX method, in the exemplification of the present invention
XX
XX Sequence 10 BP; 3 A; 3 C; 2 G; 2 T; 0 U; 0 Other;
SQ
XX
XX Query Match 33.3%; Score 10; DB 1; Length 10;
XX Best Local Similarity 100.0%; Pred. No. 28;
XX Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
OY 1496 ACTTCAGCAG 1505
XX |||||
DB 1 ACTTCAGCAG 10
```

RESULT 30
 ID AAF41899
 AC AAF41899 standard; DNA; 10 BP.
 DT 23-MAR-2001 (first entry)
 XX
 DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:8638.
 XX
 KW Yeast; *Saccharomyces cerevisiae*; characterisation; cell cycle; NORF;
 KW not previously assigned open reading frame; nonannotated ORF; SAGE;
 KW serial analysis of gene expression; antifungal; tag; identification;
 KW linker; PCR primer; ds.
 XX
 OS *Saccharomyces cerevisiae*.
 OS
 XX WO200077214-A2.
 XX
 XX 21-DEC-2000.
 XX
 XX 14-JUN-2000; 2000WO-US016223.
 XX
 XX 16-JUN-1999; 99US-00335032.
 XX
 XX (UYJO) UNIV JOHNS HOPKINS.
 XX
 XX Velulescu V, Vogelstein B, Kinzler K;
 PI
 DR WPI: 2001-061874/07.
 XX
 PT Yeast gene coding sequences comprising NORF genes with serial analysis of
 PT gene expression (SAGE) tags, useful for studying, monitoring and
 PT affecting phases of the cell cycle.
 PS
 PS Example; Page 308; 41pp; English.
 XX
 CC The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at
 CC least 10% between any two phases of the cell cycle selected from log
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast
 CC cell; and (b) monitoring expression of a NORF gene whose expression
 CC varies as in M1, where a test substance which modifies the expression of
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
 CC identifying human genes which are involved in cell cycle progression
 CC comprising contacting human DNA with a probe which comprises at least 10
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
 CC and (4) a method (M4) for identifying a candidate drug as a member of a
 CC class of drugs having a characteristic effect on gene expression in a
 CC yeast cell comprising contacting a yeast cell with a candidate drug and
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose
 CC expression is affected by the class of drugs. The NORF genes may be used
 CC to study, monitor and affect phases of the cell cycle, the differentially
 CC expressed genes may be used as markers of phases of the cell cycle. The
 CC methods may be used to identify candidate drugs which affect the cell
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
 CC represent SAGE tags used in the exemplification of the present invention.
 CC AAF33262 to AAF3367 represent linkers and PCR primers used in the SAGE
 CC method, in the exemplification of the present invention
 XX
 SQ Sequence 10 BP; 5 A; 2 C; 3 G; 0 T; 0 U; 0 Other;

```
Query Match      33.3%; Score 10; DB 1; Length 10;
Best Local Similarity 100.0%; Pred.No. 28;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0
```

OY	1482	GACCAAGAAG	1491
Db	1	GACCAAGAAG	1.0

RESULT 31
AAV32260/c
ID AAV32260 standard; DNA; 12 BP

XX
AC
AAV32260;

DT 18-AUG-1998 (first entry)

XX Random primed reverse transcription PCR primer 108.

RT-PCR, primer; amplification; reverse transcription; RNA fingerprinting; KW

XX differential gene expression; ss.

OS. Synthetic.
XX

PN MO9813521-A1
XX

PD 02-APR-1998.
XX
01 FEB 1997 0810 00000000

PH	26-SEP-1997;	9/NOV-EP005290.
XX		
IN	01-SEP-1995	0600-00000015

PR 27-SEP-1996; 96GB-00020216.
XX

PA (SANK-) FOND CENT SAV
XX

PI Consalez G, Fesce R
XX
1999 330755/30

DR WPI; 1998-230125/20.
XX
D:\EE-1998-230125-200001

PT polymerase chain reaction - uses random priming with primers selected for differential screening or gene expression by reverse transcription

high efficiency and selectively by computer screening of database(s).

PS Claim 9; Page 24; 3/1pp; English
XX

The invention provides a method for the differential screening of gene expression by random primed reverse transcription PCR (RT-PCR). The expression by random primed reverse transcription PCR (RT-PCR) on non-activated membranes are generated by stimulating BCP reactions on non-

CC primer sequences are generated by stimulating for reactions on non
CC redundant mammalian nucleotide sequence databank entries containing at
least 1 000 bp of coding region. The primers collected such as the

CC present one, had to meet various criteria such as having an efficiency
CC least 1,000 bp of coding region; the primers selected, such as the
CC present one, had to meet various criteria such as having an efficiency
CC least 1,000 bp of coding region; the primers selected, such as the

CC index between 2-10, having a selectivity index higher than 1, being 12
CC long i.e. 8 C or G and 4 T or A, and each primer differed from the oth
CC i.e. at least 2 of the 8 bases at the 3'-end. The invention claims the

CC in at least 5 of the 6 passes at the 5'-end. The inversion claims are
CC selected primers make it possible to use internally primed, PCR-based
CC discriminating for simple, exhaustive and automatic analysis of

CC fingerprinting for simple, exhaustive and systematic analysis of
CC differential gene expression as an advantageous alternative to
differential analysis. The method can also be useful for isolating new

cc differential display. The method can also be useful for isolating new
cc coding sequences and to compare known and new genes

Sequence 12 BP; 0 A; 3 C; 4 G; 4 T; 0 U; 1 Other;

Query Match	33.3%	Score 10;	DB 1;	Length 12;
Query Match	100.0%	Score 10;	DB 1;	Length 12;

```

Best Local Similarity 100.0%; Freq. NO. 53;
Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

1479 CACGACCAAG 1488

Db 10 CACGACCAAG 1

E

RESULT 32
AAx89228

LD	AAx89228	Standard; DNA; 13 bp
XX		
13	11900000	

AC AAX89228;
XX
15 SEP 1990 (EAST COAST)

DI 15-SEP-1999 (LIST ENCLY)

```

XX PCR primer H-AP34.
DE
XX
XX ST2L, extracellular domain; mouse; epitope; antibody; T-helper cell; Th1;
KW Th2; medicament; therapy; allergic reaction; asthma; Leishmania;
KW intracellular pathogen; inflammatory disease; arthritis; immunoglobulin;
XX PCR primer; ss.
OS Synthetic.
XX
XX WO934217-A1.
XX
XX 08-JUL-1999.
XX
XX 24-DEC-1998; 98WO-GB003913.
XX
XX 24-DEC-1997; 97GB-00027172.
XX
XX (UNITV ) UNITV GLASGOW.
XX
XX
XX Liew FY, Xu D;
XX
XX WPI; 1999-430265/36.
XX
XX Novel antibody to ST2L, an epitope found on the extracellular surfaces of
XX T helper 1 cells.
XX
XX Disclosure; Page 12; 44pp; English.
XX
XX The invention provides an antibody specific for epitopes (AAV27164-175)
XX located on the extracellular domain of ST2L protein. The antibody is
XX used; (a) in a binding assay to identify and/or distinguish T-helper 1
XX (Th1) or Th2 and evaluate the abundance of Th2 in a sample of body fluid
XX or tissue; (b) to lyse Th2 cells in preference to Th1 cells or otherwise
XX inhibit Th2 cell function; and (c) as a medicament for use in therapy as
XX a mediator of an allergic reaction, e.g. asthma; diseases mediated by
XX intracellular pathogens, especially Leishmania, or against an
XX inflammatory disease, especially arthritis. The antibody is targeted to
XX an epitope (ST2L) which is a member of the immunoglobulin superfamily and
XX is found on Th2 cells and not Th1 cells
XX
XX Sequence 13 BP; 4 A; 4 C; 3 G; 2 T; 0 U; 0 Other;
XX
XX Query Match 33.3%; Score 10; DB 1; Length 13;
XX Best Local Similarity 100.0%; Pred. No. 36;
XX Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1497 CTTGACGACG 1506
XX
XX Db 4 CTTGACGACG 13
XX
XX RESULT 33
XX ADC64953
XX ID ADC64953 standard; DNA; 13 BP.
XX
XX ADC64953;
XX
XX 18-DEC-2003 (first entry)
XX
XX Camellia sinensis L. (O.) Kuntze related PCR primer AP34.
XX
XX Camellia sinensis L. (O.) Kuntze; tea tree; PCR primer; ss.
XX
XX Synthetic.
XX
XX Camellia sinensis.
XX
XX CN1377966-A.
XX
XX 06-NOV-2002.
XX
XX 30-MAR-2001; 2001CN-00112459.
XX

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PR 30-MAR-2001; 2001CN-00112459.
XX
XX (SCIN-) SCI & IND RES COMMISSION.
XX
XX WPI; 2003-230959/23.
XX
XX Cloning of a new gene sequence expressed and inhibited during winter
XX dormancy of a tea tree top plumlet, comprises identification, cloning
XX and analysis of a new primer in the gene sequence.
XX
XX Example 3; Page 32; 66pp; Chinese.
XX
XX The present invention describes the cloning of a new gene sequence
XX expressed and inhibited during hibernation of the top plumlet of a
XX Camellia sinensis L.(O.) Kuntze tea tree. Also described is the
XX identification, cloning, and analysis of a primer terminal in the gene
XX sequence expressed and inhibited during hibernation of the top plumlet
XX of the tea tree. The present sequence represents a PCR primer which is
XX used in an example from the present invention.
XX
XX Sequence 13 BP; 4 A; 4 C; 3 G; 2 T; 0 U; 0 Other;
XX
XX Query Match 33.3%; Score 10; DB 1; Length 13;
XX Best Local Similarity 100.0%; Pred. No. 36;
XX Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
XX 1497 CTTGACGACG 1506
XX
XX Db 4 CTTGACGACG 13
XX
XX RESULT 34
XX ABH65692/c
XX ID ABH65692 standard; DNA; 13 BP.
XX
XX ABH65692;
XX
XX 22-FEB-2002 (first entry)
XX
XX Oligonucleotide SEQ ID NO 265669 for detecting SNP TSC0064388.
XX
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
XX central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
XX
XX WO200177384-A2.
XX
XX 18-OCT-2001.
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIG-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
XX designed to detect single-nucleotide polymorphisms and cytosine
XX methylation status.
XX
XX Claim 1; SEQ ID NO 265669; 29pp + Sequence listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
XX acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
XX and cytosine methylation status in chemically pretreated genomic DNA. The
XX oligonucleotides are used for diagnosis and/or prognosis of cancer and a
XX range of diseases including immune system, gastrointestinal, respiratory,
XX central nervous system, cardiovascular and metabolic disorders. The
XX

```

CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABC99989, ABF00010-ABP99989, ABH00010-ABH99989 and ABI00010-ABI82073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences
 CC
 SQ Sequence 13 BP; 3 A; 0 C; 5 G; 5 T; 0 U; 0 Other;
 XX
 Query Match 32.7%; Score 9.8; DB 1; Length 13;
 Best Local Similarity 84.6%; Pred. No. 39;
 Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 1489 AAGCCAGACTTCA 1501
 DB 13 AACCCATCTTCA 1
 RESULT 35
 ABH65694/c
 ID ABH65694 standard; DNA; 13 BP.
 XX
 AC ABH65694;
 XX
 DT 22-FEB-2002 (first entry)
 DE Oligonucleotide SEQ ID NO 265671 for detecting SNP TSC0064388.
 XX
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 PN WO200177384-A2.
 XX
 PD 18-OCT-2001.
 XX
 PF 06-APR-2001; 2001WO-IB000713.
 XX
 PR 07-APR-2000; 2000DE-01019173.
 XX
 PA (EPIC-) EPIGENOMICS AG.
 XX
 PI Olek A, Piepenbrock C, Berlin K;
 XX
 DR WPI; 2001-657177/75.
 XX
 PT Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.
 XX
 PS Claim 1; SEQ ID NO 265671; 29pp + Sequence Listing; German.
 XX
 CC This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABC99989, ABF00010-ABP99989, ABH00010-ABH99989 and ABI00010-ABI82073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences
 CC
 SQ Sequence 13 BP; 2 A; 0 C; 5 G; 6 T; 0 U; 0 Other;
 XX
 Query Match 32.7%; Score 9.8; DB 1; Length 13;
 Best Local Similarity 84.6%; Pred. No. 39;
 Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1489 AAGCCAGACTTCA 1501
 DB 13 AACCCATCTTCA 1
 RESULT 36
 ABH65693
 ID ABH65693 standard; DNA; 13 BP.
 XX
 AC ABH65693;
 XX
 DT 22-FEB-2002 (first entry)
 DE Oligonucleotide SEQ ID NO 265670 for detecting SNP TSC0064388.
 XX
 XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 PN WO200177384-A2.
 XX
 PD 18-OCT-2001.
 XX
 PF 06-APR-2001; 2001WO-IB000713.
 XX
 PR 07-APR-2000; 2000DE-01019173.
 XX
 PA (EPIC-) EPIGENOMICS AG.
 XX
 PI Olek A, Piepenbrock C, Berlin K;
 XX
 DR WPI; 2001-657177/75.
 XX
 PT Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.
 XX
 PS Claim 1; SEQ ID NO 265670; 29pp + Sequence Listing; German.
 XX
 CC This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABC99989, ABF00010-ABP99989, ABH00010-ABH99989 and ABI00010-ABI82073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences
 CC
 SQ Sequence 13 BP; 5 A; 5 C; 0 G; 3 T; 0 U; 0 Other;
 XX
 Query Match 32.7%; Score 9.8; DB 1; Length 13;
 Best Local Similarity 84.6%; Pred. No. 39;
 Matches 11; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
 QY 1489 AAGCCAGACTTCA 1501
 DB 1 AACCCATCTTCA 13
 RESULT 37
 ABH65695
 ID ABH65695 standard; DNA; 13 BP.
 XX
 AC ABH65695;
 XX
 DT 22-FEB-2002 (first entry)

PR 03-JAN-2001, 2001DE-01000127.
 XX
 PA (HENK) HENKEL KGAA.
 XX
 PI Petersohn D, Conradt M, Hofmann K;
 XX WPI; 2002-590638/63.
 XX
 PT In vitro identification of skin-expressed genes, useful for determining
 PT homeostasis and identifying cosmetic or pharmaceutical agents against
 PT e.g. skin cancer.
 XX
 PS Claim 24, Page 259, 1345dp; German.
 XX
 CC The invention relates to in vitro identification (M1) of genes expressed
 CC in the skin of humans or animals by subjecting a mixture of genetically
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)
 CC so as to identify skin-expressed genes and quantify their expression.
 CC (M1) is useful for identifying genes involved in skin homeostasis; to
 CC determine skin homeostasis and to test agent (A) that maintains or
 CC promotes skin homeostasis or that can be used for treating skin
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
 CC skin. The present sequence is that of a human expressed sequence tag
 CC (EST) of the invention
 CC
 SQ Sequence 11 BP, 1 A, 3 C, 3 G, 4 T, 0 U, 0 Other;
 XX
 Query Match 31.3%; Score 9.4; DB 1; Length 11;
 Best Local Similarity 90.9%; Pred. No. 40;
 Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1495 GACTTCAGCAG 1505
 Db 11 GACTACGCG 1
 XX
 RESULT 40
 ABV69357/c
 ID ABV69357 standard; cDNA; 11 BP.
 XX
 AC ABV69357;
 XX
 DT 21-OCT-2002 (first entry)
 XX
 DE Human skin EST 7143.
 XX
 KW Human, skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
 KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
 KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200253774-A2.
 XX
 PD 11-JUL-2002.
 XX
 PF 20-DEC-2001; 2001WO-EP015179.
 XX
 PR 03-JAN-2001; 2001DE-01000127.
 XX
 PA (HENK) HENKEL KGAA.
 XX
 PI Petersohn D, Conradt M, Hofmann K;
 XX WPI; 2002-590638/63.
 XX
 PT In vitro identification of skin-expressed genes, useful for determining
 PT homeostasis and identifying cosmetic or pharmaceutical agents against
 PT e.g. skin cancer.
 XX
 PS Disclosure; Page 224, 1345dp; German.

XX
 CC The invention relates to in vitro identification (M1) of genes expressed
 CC in the skin of humans or animals by subjecting a mixture of genetically
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)
 CC so as to identify skin-expressed genes and quantify their expression.
 CC (M1) is useful for identifying genes involved in skin homeostasis; to
 CC determine skin homeostasis and to test agent (A) that maintains or
 CC promotes skin homeostasis or that can be used for treating skin
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
 CC skin. The present sequence is that of a human expressed sequence tag
 CC (EST) of the invention
 CC
 SQ Sequence 11 BP, 0 A, 4 C, 2 G, 5 T, 0 U, 0 Other;
 XX
 Query Match 31.3%; Score 9.4; DB 1; Length 11;
 Best Local Similarity 90.9%; Pred. No. 40;
 Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1485 CAGAGCGCG 1495
 Db 11 CAGAGCGCG 1
 XX
 RESULT 41
 ABV62925/c
 ID ABV62925 standard; cDNA; 11 BP.
 XX
 AC ABV62925;
 XX
 DT 21-OCT-2002 (first entry)
 XX
 DE Human skin EST 711.
 XX
 KW Human, skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
 KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
 KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200253774-A2.
 XX
 PD 11-JUL-2002.
 XX
 PF 20-DEC-2001; 2001WO-EP015179.
 XX
 PR 03-JAN-2001; 2001DE-01000127.
 XX
 PA (HENK) HENKEL KGAA.
 XX
 PI Petersohn D, Conradt M, Hofmann K;
 XX WPI; 2002-590638/63.
 XX
 PT In vitro identification of skin-expressed genes, useful for determining
 PT homeostasis and identifying cosmetic or pharmaceutical agents against
 PT e.g. skin cancer.
 XX
 PS Disclosure; Page 45, 1345dp; German.
 XX
 CC The invention relates to in vitro identification (M1) of genes expressed
 CC in the skin of humans or animals by subjecting a mixture of genetically
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)
 CC so as to identify skin-expressed genes and quantify their expression.
 CC (M1) is useful for identifying genes involved in skin homeostasis; to
 CC determine skin homeostasis and to test agent (A) that maintains or
 CC promotes skin homeostasis or that can be used for treating skin
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
 CC skin. The present sequence is that of a human expressed sequence tag
 CC (EST) of the invention

```
XX SQ Sequence 11 BP; 1 A; 3 C; 3 G; 4 T; 0 U; 0 Other;
Query Match 31.3%; Score 9.4; DB 1; Length 11;
Best Local Similarity 90.9%; Pred. No. 40;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1495 GACTCAGCAG 1505
DB 11 GACTACAGCAG 1

RESULT 42
ABV68643/c
ID ABV68643 standard; cDNA; 11 BP.
AC ABV68643;
XX
XX 21-OCT-2002 (first entry)
XX
XX Human skin EST 6429.
DE
XX Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
XX immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
XX psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX
XX Homo sapiens.
OS
XX
XX WO200253774-A2.
XX
XX 11-JUL-2002.
XX
XX 20-DEC-2001; 2001WO-EP015179.
XX
XX 03-JAN-2001; 2001DE-01000127.
XX
XX (HENK ) HENKEL KGAA.
XX
XX Petersohn D, Conradt M, Hofmann K;
XX
XX WPI; 2002-590638/63.
XX
XX In vitro identification of skin-expressed genes, useful for determining
XX homeostasis and identifying cosmetic or pharmaceutical agents against
XX e.g. skin cancer.
XX
XX Disclosure; Page 204; 1345pp; German.
XX
XX The invention relates to in vitro identification (M1) of genes expressed
XX in the skin of humans or animals by subjecting a mixture of genetically
XX encoded factors from skin, to serial analysis of gene expression (SAGE)
XX so as to identify skin-expressed genes and quantify their expression.
XX (M1) is useful for identifying genes involved in skin homeostasis; to
XX determine skin homeostasis and to test agent (A) that maintains or
XX promotes skin homeostasis or that can be used for treating skin
XX disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
XX ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
XX rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
XX skin. The present sequence is that of a human expressed sequence tag
XX (EST) of the invention
XX
XX Sequence 11 BP; 3 A; 2 C; 3 G; 3 T; 0 U; 0 Other;
Query Match 31.3%; Score 9.4; DB 1; Length 11;
Best Local Similarity 90.9%; Pred. No. 40;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1489 AAGCCAGACTT 1499
DB 11 AAGCCAGCTTT 1

RESULT 43
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ABV69164
ID ABV69164 standard; cDNA; 11 BP.
XX
XX AC ABV69164;
XX
XX 21-OCT-2002 (first entry)
XX
XX Human skin EST 6950.
DE
XX Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
XX immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
XX psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX
XX Homo sapiens.
OS
XX
XX WO200253774-A2.
XX
XX 11-JUL-2002.
XX
XX 20-DEC-2001; 2001WO-EP015179.
XX
XX 03-JAN-2001; 2001DE-01000127.
XX
XX (HENK ) HENKEL KGAA.
XX
XX Petersohn D, Conradt M, Hofmann K;
XX
XX WPI; 2002-590638/63.
XX
XX In vitro identification of skin-expressed genes, useful for determining
XX homeostasis and identifying cosmetic or pharmaceutical agents against
XX e.g. skin cancer.
XX
XX Disclosure; Page 218; 1345pp; German.
XX
XX The invention relates to in vitro identification (M1) of genes expressed
XX in the skin of humans or animals by subjecting a mixture of genetically
XX encoded factors from skin, to serial analysis of gene expression (SAGE)
XX so as to identify skin-expressed genes and quantify their expression.
XX (M1) is useful for identifying genes involved in skin homeostasis; to
XX determine skin homeostasis and to test agent (A) that maintains or
XX promotes skin homeostasis or that can be used for treating skin
XX disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
XX ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
XX rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
XX skin. The present sequence is that of a human expressed sequence tag
XX (EST) of the invention
XX
XX Sequence 11 BP; 7 A; 1 C; 3 G; 0 T; 0 U; 0 Other;
Query Match 31.3%; Score 9.4; DB 1; Length 11;
Best Local Similarity 90.9%; Pred. No. 40;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1486 AAGAGCCAGA 1496
DB 1 AAGAGCCAGA 11

RESULT 44
AAZ41704/c
ID AAZ41704 standard; DNA; 12 BP.
XX
XX AC AAZ41704;
XX
XX 20-MAR-2003 (revised)
XX
XX 21-JAN-2000 (first entry)
XX
XX Organic material detecting primer 65.
XX
XX Amplification; polymerase chain reaction; PCR; microorganism; compost;
XX detection; pollutant; soil; food; agricultural chemical; polymer;
XX organochlorine; primer; ss.
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XX OS Synthetic.
XX PN DE19914461-A1.
XX PD 21-OCT-1999.
XX PF 30-MAR-1999; 99DE-01014461.
XX PR 31-MAR-1998; 98JP-00087651.
XX PR 16-MAR-1999; 99JP-00069694.
XX PA (SAOL ) SANYO ELECTRIC CO LTD.
XX PA (NORI ) SOC TECHNO-INNOVATION AGRIC FORESTRY & FI.
XX PI Inoue T;
XX PI WPI; 1999-592157/51.
XX DR Novel polymerase chain reaction method, for differentiating between
XX PT microorganisms and for detecting contaminants.
XX PS Example 1; Page 18; 78pp; German.
XX PS This invention describes a novel method for the amplification of DNA
XX CC comprising (i) preparing many primers (P) with different probabilities of
XX CC amplification and (ii) simultaneous polymerase chain reaction (PCR) of
XX CC many different DNA using these primers. The method is used (i) to
XX CC differentiate between different microorganisms in a mixed population and
XX CC (ii) to determine presence/absence of an impurity (pollutant), or its
XX CC concentration, in e.g. soil, foods, compost etc., typically metals,
XX CC agricultural chemicals, polymers, organochlorine compounds etc. A
XX CC particular use is monitoring composting of organic material.
XX CC Amplification with many primers produces a lot of information, so
XX CC reliability of the test is improved, and many samples may be tested
XX CC quickly. AA241640-241855 represent the primers described in the method of
XX CC the invention. (Updated on 20-MAR-2003 to correct PR field.)
XX SQ Sequence 12 BP; 1 A; 3 C; 4 G; 4 T; 0 U; 0 Other;
XX
XX Query Match 31.3%; Score 9.4; DB 1; Length 12;
XX Best Local Similarity 90.9%; Pred. No. 43;
XX Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1484 CCAAGAGGCCA 1494
Db 11 CCAAGAGGCCA 1
RESULT 45
AA241488/C
ID AA241488 standard; DNA; 12. BP.
XX
XX AC AA241488;
XX DT 19-JAN-2000 (first entry)
XX DE Microbe detection in organic waste arbitrarily primed PCR primer #65.
XX
XX KM Microbe; detection; organic waste; arbitrarily primer PCR;
XX KM random amplified polymorphic DNA; amplification; PCR primer; ss.
XX OS Synthetic.
XX PN JP11276176-A.
XX PD 12-OCT-1999.
XX PF 31-MAR-1998; 98JP-00087652.
XX PR 31-MAR-1998; 98JP-00087652.
XX PA (SAOL ) SANYO ELECTRIC CO LTD.

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PA (NORI-) ZH NORIN SUISAN SENTAN GIJUTSU SANGYO.
XX
XX DR WPI; 1999-626940/51.
XX PT Amplification of a DNA fragment - in order to establish the state of
XX PT existence of a microbe.
XX PS Example; Page 9; 40pp; Japanese.
XX
XX CC A method has been developed for the amplification of a DNA fragment in
XX CC which amplification is carried out on the DNA fragments of a number of
XX CC different DNAs. The method comprises a PCR reaction repeatedly carrying
XX CC out a heat-denaturing step, a primer annealing step and a polymerase
XX CC extending step, to amplify the DNA fragments of a plural of different
XX CC DNAs. The method can detect the existence of a microbe in organic waste.
XX CC AA241424 to AA241639 represent PCR primers used in random amplified
XX CC polymorphic DNA arbitrarily primed PCR, for the detection of microbes in
XX CC organic waste
XX SQ Sequence 12 BP; 1 A; 3 C; 4 G; 4 T; 0 U; 0 Other;
XX
XX Query Match 31.3%; Score 9.4; DB 1; Length 12;
XX Best Local Similarity 90.9%; Pred. No. 43;
XX Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1484 CCAAGAGGCCA 1494
Db 11 CCAAGAGGCCA 1
RESULT 46
AAC97839/C
ID AAC97839 standard; DNA; 12 BP.
XX
XX AC AAC97839;
XX DT 26-FEB-2001 (first entry)
XX DE Primer used to illustrate DNA amplification method SEQ ID 65.
XX
XX KM Primer; amplification; selective; ss.
XX OS Synthetic.
XX PN JP2000270867-A.
XX PD 03-OCT-2000.
XX PF 19-MAR-1999; 99JP-00076844.
XX PR 19-MAR-1999; 99JP-00076844.
XX PA (SAOL ) SANYO ELECTRIC CO LTD.
XX PA (NORI-) ZH NORIN SUISAN SENTAN GIJUTSU SANGYO.
XX DR WPI; 2001-011047/02.
XX
XX PS Amplification of a DNA fragment and its apparatus.
XX PS Example 1; Page 8; 32pp; Japanese.
XX
XX CC This invention relates to a method for amplifying a DNA fragment. The
XX CC method comprises successive repetitions of heat-denaturing, annealing of
XX CC a primer and an extending step using a DNA polymerase. The method makes
XX CC use of a cDNA pool in which the primer is one primer or a pair of primer
XX CC sets and has an amplification probability which allows it to amplify a
XX CC DNA fragment from a limited number of the cDNAs among the DNA pool (where
XX CC the limited number is in the range of 1 to 25). Also included in the
XX CC invention are apparatus used for carrying out the method, a primer and a
XX CC DNA polymerase and a kit used for amplifying a DNA fragment. The method
XX CC can be used to amplify a limited number of cDNAs from a pool in which a
XX CC wide variety of cDNAs are present. Oligonucleotides AAC97775 - AAC97990
XX CC represent primers used in an example illustrating the method of the

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```
CC invention
XX
SQ Sequence 12 BP; 1 A; 3 C; 4 G; 4 T; 0 U; 0 Other;

Query Match      31.3%; Score 9.4; DB 1; Length 12;
Best Local Similarity 90.9%; Pred. No. 43;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1484 CCAAGAGGCCA 1494
   |||||
   11 CCAAGAGGCCA 1

RESULT 47
AB102085/C
ID AB102085 standard; DNA; 12 BP.
XX
AC AB102085;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 302058 for detecting SNP TSC0019774.
XX
XX SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-1B000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1; SEQ ID NO 302058; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABR00010-ABF99989, ABH00010-ABH99989 and ARI00010-ABR82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 12 BP; 0 A; 1 C; 4 G; 7 T; 0 U; 0 Other;

Query Match      31.3%; Score 9.4; DB 1; Length 12;
Best Local Similarity 90.9%; Pred. No. 43;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1480 ACGACCAAGAA 1490
   |||||
   12 ACGACCAAGAA 2

DB 12 ACGACCAAGAA 2
```

```
RESULT 48
ABH84038
ID ABH84038 standard; DNA; 12 BP.
XX
AC ABH84038;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 284031 for detecting SNP TSC0011630.
XX
XX SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
OS Homo sapiens.
XX
PN WO200177384-A2.
XX
PD 18-OCT-2001.
XX
PF 06-APR-2001; 2001WO-1B000713.
XX
PR 07-APR-2000; 2000DE-01019173.
XX
PA (EPIG-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
WPI; 2001-657177/75.
XX
PT Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
PS Claim 1; SEQ ID NO 284031; 29pp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABR00010-ABF99989, ABH00010-ABH99989 and ARI00010-ABR82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 12 BP; 8 A; 3 C; 1 G; 0 T; 0 U; 0 Other;

Query Match      31.3%; Score 9.4; DB 1; Length 12;
Best Local Similarity 90.9%; Pred. No. 43;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1480 ACGACCAAGAA 1490
   |||||
   1 ACGACCAAGAA 11

DB 1 ACGACCAAGAA 11

RESULT 49
AB153669/C
ID AB153669 standard; DNA; 12 BP.
XX
AC AB153669;
XX
DT 22-FEB-2002 (first entry)
XX
DE Oligonucleotide primer SEQ ID NO 353642 for detecting SNP TSC0048625.
XX
XX SNP, single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
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XX Homo sapiens.
OS
XX
XX WO200177384-A2.
XX
XX
XX 18-OCT-2001.
XX
XX
XX 06-APR-2001; 2001WO-IB000713.
XX
XX 07-APR-2000; 2000DE-01019173.
XX
XX (EPIC-) EPIGENOMICS AG.
XX
XX Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
XX
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX Claim 1; SEQ ID NO 353642; 29bp + Sequence Listing; German.
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99988, ABF00010-ABP99989, ABH00010-ABH99989 and ABI00010-ABI82073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
XX Sequence 12 BP; 0 A; 1 C; 3 G; 8 T; 0 U; 0 Other;
SQ
XX
XX Query Match 31.3%; Score 9.4; DB 1; Length 12;
XX Best Local Similarity 90.9%; Pred. No. 43;
XX Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1480 ACGACCAAGAA 1490
Db 12 ACGACCAAAAA 2
XX
XX RESULT 50
XX AA199727/c
XX ID AA199727 standard; DNA; 12 BP.
XX
XX AA199727;
XX
XX 21-JAN-2002 (first entry)
XX
XX Microbial SSC-PCR primer SEQ ID NO 10.
XX
XX PCR primer; microbe; composted waste; soil; contaminant; mercury;
XX arsenic; dioxin; hormone; SSC-PCR; ss.
XX
XX Synthetic.
XX
XX WO200175156-A1.
XX
XX 11-OCT-2001.
XX
XX 27-MAR-2001; 2001WO-JP002516.
XX
XX 31-MAR-2000; 2000JP-00099482.
XX
XX (SAOL) SANYO ELECTRIC CO LTD.
XX (NORO) SOC TECHNO-INNOVATION AGRIC FORESTY & FI.
XX

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PI Inoue T;
XX
XX WPI; 2001-662977/76.
XX
XX Microbe identification comprises comparing results of SSC-PCR with a
PT reference database for determining microbial spectrum in soil and compost
PT samples.
XX
XX Example; Page 34; 97bp; Japanese.
XX
XX The invention relates to identification of microbes, especially for
CC obtaining information on the microbial spectrum in composted wastes and
CC in the soil to which they are to be applied, and especially to give an
CC indication of possible contaminants in the soil (such as mercury,
CC arsenic, dioxins and environmental hormones) by the presence of
CC microorganisms associated with them, comprising: (a) polymerase chain
CC reaction on DNA of a mixture of microbes using a number of primers of
CC the different amplification probability (SSC-PCR); (b) electrophoresis of the
CC DNA amplification fragments; (c) detecting the bands obtained on the
CC electrophoresis image; (d) correcting errors in the image gradients; (e)
CC measuring the position and intensity of the bands; (f) analyzing the
CC results and creating a list of the band data; (g) searching this list
CC against a reference database; and (h) displaying the result of the
CC search. The present sequence is that of a PCR primer, useful to the
CC invention
XX
XX Sequence 12 BP; 1 A; 3 C; 4 G; 4 T; 0 U; 0 Other;
SQ
XX
XX Query Match 31.3%; Score 9.4; DB 1; Length 12;
XX Best Local Similarity 90.9%; Pred. No. 43;
XX Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1484 CCAAGAGGCA 1494
Db 11 CCAAGAGGCA 1
XX
XX RESULT 51
XX AAX18642/c
XX ID AAX18642 standard; DNA; 10 BP.
XX
XX AAX18642;
XX
XX 06-MAY-1999 (first entry)
XX
XX p53 serial analysis of gene expression tag #45.
XX
XX p53: serial analysis of gene expression; SAGE tag; cancer; neoplastic;
XX rat embryo fibroblast; REF; tumour suppressor; cell cycle control;
XX tumourigenesis; diagnosis; ss.
XX
XX Synthetic.
XX OS Rattus sp.
XX
XX WO9901581-A1.
XX
XX 14-JAN-1999.
XX
XX 02-JUL-1998; 98WO-US013903.
XX
XX 02-JUL-1997; 97US-0051573P.
XX
XX (GENZ) GENZYME CORP.
XX
XX Madden SL, Galella EA, Bertelsen AH, Beaudry GA;
XX
XX WPI; 1999-106079/09.
XX
XX Diagnosis of cancer in potentially neoplastic samples - by comparing the
PT level of transcription between RNA transcripts in two tissue samples,
PT useful for providing an extensive profile of gene expression in rat
PT embryo fibroblast (REF) cells.
XX

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DT 07-APR-2000 (first entry)
 XX Metastatic breast tumour cell upregulated transcript tag #2475.
 DE
 XX
 XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
 KW non-metastatic breast tumour tissue; gene therapy; anticancer;
 XX antimetastatic; vaccine; diagnosis; ss.
 OS Homo sapiens.
 XX
 PN W0965928-A2.
 PD 23-DEC-1999.
 XX
 PF 18-JUN-1999; 99MO-US013647.
 XX
 PR 19-JUN-1998; 98US-0089953P.
 PR 19-JUN-1998; 98US-0089997P.
 PR 19-JUN-1998; 98US-0090039P.
 PR 19-JUN-1998; 98US-0090040P.
 PR 19-JUN-1998; 98US-0090041P.
 XX
 PA (GENZ) GENZYME CORP.
 PA (ROBE/) ROBERTS B L.
 PA (SHAN/) SHANKARA S.
 PI Roberts BL, Shankara S;
 DR WPI, 2000-106079/09.
 XX
 PT Isolated polynucleotides differentially expressed between metastatic and
 PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
 XX treatment of cancer.
 PS Claim 1; Page 126; 219pp; English.
 XX
 CC AA280767 to AA283941 represent tags corresponding to distinct transcripts
 CC that are preferentially transcribed in the metastatic breast tumour
 CC tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942
 CC to AA286677 represent tags corresponding to distinct transcripts that are
 CC preferentially transcribed in the primary or non-metastatic breast tumour
 CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
 CC transcripts can be used for diagnosis, prognosis, monitoring and
 CC treatment of breast cancer, particularly where metastatic. Diagnosis is
 CC by standard immunoassays or hybridisation/amplification reactions.
 CC Compounds that modulate expression of the transcripts are potentially
 CC useful for treatment of (metastatic) breast cancer, while promoters from
 CC the transcripts are used to direct expression, in selected cell types, of
 CC e.g. therapeutic genes (also ribozymes or antisense sequences),
 CC particularly an antigen-encoding sequence for use in gene or cell-based
 CC vaccines. Polypeptides encoded by the transcripts are also useful in
 CC vaccines; for diagnosing breast cancer and for raising specific
 CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
 CC agents. Host cells that produce the polypeptides can be used to expand
 CC and isolate populations of educated, antigen-specific immune effector
 CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
 CC immunotherapy.
 CC
 XX
 SQ Sequence 10 BP; 0 A; 2 C; 5 G; 3 T; 0 U; 0 Other;
 Query Match 30.0%; Score 9; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 43;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1500 CAGCAGCCA 1508
 Db 10 CAGCAGCCA 2

RESULT 54
 AA283053/c
 ID AA283053 standard; DNA, 10 BP.
 XX

AC AA283053;
 XX
 DT 07-APR-2000 (first entry)
 XX Metastatic breast tumour cell upregulated transcript tag #287.
 DE
 XX
 XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
 KW non-metastatic breast tumour tissue; gene therapy; anticancer;
 XX antimetastatic; vaccine; diagnosis; ss.
 OS Homo sapiens.
 XX
 PN W0965928-A2.
 PD 23-DEC-1999.
 XX
 PF 18-JUN-1999; 99MO-US013647.
 XX
 PR 19-JUN-1998; 98US-0089953P.
 PR 19-JUN-1998; 98US-0089997P.
 PR 19-JUN-1998; 98US-0090039P.
 PR 19-JUN-1998; 98US-0090040P.
 PR 19-JUN-1998; 98US-0090041P.
 XX
 PA (GENZ) GENZYME CORP.
 PA (ROBE/) ROBERTS B L.
 PA (SHAN/) SHANKARA S.
 PI Roberts BL, Shankara S;
 DR WPI, 2000-106079/09.
 XX
 PT Isolated polynucleotides differentially expressed between metastatic and
 PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
 XX treatment of cancer.
 PS Claim 1; Page 120; 219pp; English.
 XX
 CC AA280767 to AA283941 represent tags corresponding to distinct transcripts
 CC that are preferentially transcribed in the metastatic breast tumour
 CC tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942
 CC to AA286677 represent tags corresponding to distinct transcripts that are
 CC preferentially transcribed in the primary or non-metastatic breast tumour
 CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
 CC transcripts can be used for diagnosis, prognosis, monitoring and
 CC treatment of breast cancer, particularly where metastatic. Diagnosis is
 CC by standard immunoassays or hybridisation/amplification reactions.
 CC Compounds that modulate expression of the transcripts are potentially
 CC useful for treatment of (metastatic) breast cancer, while promoters from
 CC the transcripts are used to direct expression, in selected cell types, of
 CC e.g. therapeutic genes (also ribozymes or antisense sequences),
 CC particularly an antigen-encoding sequence for use in gene or cell-based
 CC vaccines. Polypeptides encoded by the transcripts are also useful in
 CC vaccines; for diagnosing breast cancer and for raising specific
 CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
 CC agents. Host cells that produce the polypeptides can be used to expand
 CC and isolate populations of educated, antigen-specific immune effector
 CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
 CC immunotherapy.
 CC
 XX
 SQ Sequence 10 BP; 1 A; 2 C; 4 G; 3 T; 0 U; 0 Other;
 Query Match 30.0%; Score 9; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 43;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1500 CAGCAGCCA 1508
 Db 10 CAGCAGCCA 2

RESULT 55
 AA286655

ID AA286659 standard; DNA; 10 BP.
XX AA286659;
AC
XX
DT 07-APR-2000 (first entry)
DE Metastatic breast tumour cell downregulated transcript tag #5893.
XX
XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KM non-metastatic breast tumour tissue; gene therapy; anticancer;
KM anti-metastatic; vaccine; diagnosis; ss.
XX
OS Homo sapiens.
XX
XX MO9965928-A2.
XX
PD 23-DEC-1999.
XX
PF 18-JUN-1999; 99WO-US013647.
XX
XX 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
XX
XX (GENZ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
XX
XX Roberts BL, Shankara S;
XX
XX MPI; 2000-106079/09.
XX
XX Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
XX
XX Claim 1: Page 213; 219pp; English.
XX
XX AA280767 to AA283941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942
CC to AA286677 represent tags corresponding to distinct transcripts that are
CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is
CC by standard immunoassays or hybridisation/amplification reactions.
CC Compounds that modulate expression of the transcripts are potentially
CC useful for treatment of (metastatic) breast cancer, while promoters from
CC the transcripts are used to direct expression, in selected cell types, of
CC e.g. therapeutic genes (also ribozymes or antisense sequences),
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines. Polypeptides encoded by the transcripts are also useful in
CC vaccines; for diagnosing breast cancer and for raising specific
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy
XX
SQ Sequence 10 BP; 6 A; 2 C; 2 G; 0 T; 0 U; 0 Other;
Query Match 30.0%; Score 9; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 43;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1486 AAGAAGCCA 1494
DB 2 AAGAAGCCA 10

RESULT 56
AAA15242
ID AAA15242 standard; DNA; 10 BP.
XX AAA15242;
AC
XX
DT 04-SEP-2000 (first entry)
DE Primer MR7 for modified differential display of tumour antigens.
XX
XX Epitope; tumour specific epitope; antigen; vaccine; tumour regression;
KM cancer; infection; primer; ss.
XX
XX Synthetic.
XX
XX WO200028016-A1.
XX
XX 18-MAY-2000.
XX
XX 10-NOV-1998; 98WO-US024029.
XX
XX 10-NOV-1998; 98WO-US024029.
XX
XX (UYRP) UNIV ROCHESTER.
XX
XX Zauderer M;
XX
XX MPI; 2000-376533/32.
XX
XX Novel method of identifying target epitopes or antigens specific for
PT human tumors, cancers and infected cells involving screening expression
PT library products of a cell expressing the target epitope.
XX
XX Disclosure; Page 68; 132pp; English.
XX
XX AAA15239-50 represent arbitrary primers which are used for modified
CC differential display of tumour antigens, in the method of the invention.
CC The specification describes a method for identifying a target epitope.
CC The method comprises screening the products of an expression library from
CC a cell expressing the target epitope with cytotoxic T cells generated
CC against the cell to identify DNA clones expressing the target epitope.
CC The method may also comprise providing a cytotoxic T cell specific for a
CC gene product differentially expressed by a cell and measuring the cross-
CC reactivity of the cytotoxic T cell. The methods are useful for
CC identifying tumour specific target epitopes and antigens which are useful
CC in immunogenic compositions or vaccines to induce the regression of
CC tumors, cancers or infections in mammals. The genes expressed in a panel
CC of tumour cells that are derived from single immortalised, non-
CC tumourigenic cell line are used to generate HLA restricted cytotoxic T
CC cells which are evaluated for activity against tumour cells. The method
CC is useful to identify potential antigens expressed not only by the
CC pathogen but also by the host cells whose gene expression is altered as a
CC result of infection. The differential gene expression strategies can be
CC applied to identify immunogenic molecules of cells infected with virus,
CC fungi or mycobacterium
XX
SQ Sequence 10 BP; 3 A; 3 C; 1 G; 3 T; 0 U; 0 Other;
Query Match 30.0%; Score 9; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 43;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1493 CAGACTTCA 1501
DB 2 CAGACTTCA 10

RESULT 57
AAAF70127/c
ID AAFA70127 standard; DNA; 10 BP.
XX AAFA70127;
XX

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DT 18-APR-2001 (first entry)
XX
XX Human TNFRSF11B gene primer-extension oligo, SEQ ID NO: 183.
DE
XX
XX Human: TNFRSF11B; osteoclastogenesis inhibitory factor;
KM single nucleotide polymorphism; SNP, osteoclast recruitment;
KW osteoclast function; osteoporosis; metastatic bone disease;
KM Paget's disease; rheumatoid arthritis; periodontal bone disease;
XX primer extension; primer; ss.
XX
OS Homo sapiens.
XX
XX WO200104137-A1.
XX
XX 18-JAN-2001.
XX
XX 10-JUL-2000; 2000WO-US018803.
XX
XX 09-JUL-1999; 99US-0143020P.
XX
XX (GENA-) GENAISSANCE PHARM INC.
XX
XX Chew A, Denton RR, Duda A, Nandabalan K, Stephens JC,
PI WPI; 2001-147175/15.
XX
XX Human Osteoclastogenesis Inhibitory Factor nucleotides, comprising single
PT nucleotide polymorphisms, useful for studying e.g. osteoporosis, Paget's
PT disease and rheumatoid arthritis.
XX
XX Disclosure, Page 24; 114pp; English.
XX
XX The present sequence is a primer used to detect polymorphisms in the
CC human osteoclastogenesis inhibitory factor (TNFRSF11B). Polynucleotides
CC comprising one or more of twenty four novel single nucleotide
CC polymorphisms in the TNFRSF11B gene have been identified. TNFRSF11B
CC regulate osteoclast recruitment and function. An understanding of
CC variations in the gene should thus be useful in developing new therapies
CC for metabolic disorders caused by abnormal osteoclast recruitment and
CC function such as osteoporosis, metastatic bone disease, Paget's disease,
CC rheumatoid arthritis and periodontal bone disease
XX
XX Sequence 10 BP; 2 A; 1 C; 3 G; 4 T; 0 U; 0 Other;
SQ
Query Match 30.0%; Score 9; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 43;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1496 ACTTCAGCA 1504
DB 9 ACTTCAGCA 1

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XX
XX 14-JUN-2000; 2000WO-US016223.
XX
XX 16-JUN-1999; 99US-00335032.
XX
XX (UYJO) UNIT JOHNS HOPKINS.
XX
XX Velculescu V, Vogelstein B, Kinzler K;
PI WPI; 2001-061874/07.
XX
XX Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.
XX
XX Example; Page 62; 419pp; English.
XX
XX The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame) or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF4064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention
XX
XX Sequence 10 BP; 2 A; 2 C; 3 G; 3 T; 0 U; 0 Other;
SQ
Query Match 30.0%; Score 9; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 43;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1498 TTCAGCAGC 1506
DB 10 TTCAGCAGC 2

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RESULT 58
AAF35009/C
ID AAF35009 standard; DNA; 10 BP.
XX
XX AAF35009;
XX
XX 23-MAR-2001 (first entry)
XX
XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:1748.
DE
XX
XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KM nor previously assigned open reading frame; nonannotated ORF; SAGE;
KM serial analysis of gene expression; antifungal; tag; identification;
XX linker; PCR primer; ds.
XX
XX Saccharomyces cerevisiae.
XX
XX WO200077214-A2.
XX
XX 21-DEC-2000.
PD

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RESULT 59
AAF39472/C
ID AAF39472 standard; DNA; 10 BP.
XX
XX AAF39472;
XX
XX 23-MAR-2001 (first entry)
XX
XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:6211.
DE
XX
XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KM nor previously assigned open reading frame; nonannotated ORF; SAGE;
KM serial analysis of gene expression; antifungal; tag; identification;
XX linker; PCR primer; ds.
XX
XX Saccharomyces cerevisiae.
XX

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PN W0200077214-A2.
 XX 21-DEC-2000.
 XX 14-JUN-2000; 2000MO-US016223.
 XX 16-JUN-1999; 99US-00335032.
 XX (UYJO) UNIV JOHNS HOPKINS.
 PA Velculescu V, Vogelstein B, Kinzler K;
 PI WPI; 2001-061874/07.
 XX Yeast gene coding sequences comprising NORF genes with serial analysis of
 PT gene expression (SAGE) tags, useful for studying, monitoring and
 PT affecting phases of the cell cycle.
 XX Example; Page 221; 419pp; English.
 XX The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at
 CC least 10% between any two phases of the cell cycle selected from log
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast
 CC cell; and (b) monitoring expression of a NORF gene whose expression
 CC varies as in M1, where a test substance which modifies the expression of
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
 CC identifying human genes which are involved in cell cycle progression
 CC comprising contacting human DNA with a probe which comprises at least 10
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
 CC and (4) a method (M4) for identifying a candidate drug as a member of a
 CC class of drugs having a characteristic effect on gene expression in a
 CC yeast cell comprising contacting a yeast cell with a candidate drug and
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose
 CC expression is affected by the class of drugs. The NORF genes may be used
 CC to study, monitor and affect phases of the cell cycle, the differentially
 CC expressed genes may be used as markers of phases of the cell cycle. The
 CC methods may be used to identify candidate drugs which affect the cell
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
 CC represent SAGE tags used in the exemplification of the present invention.
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
 CC method, in the exemplification of the present invention
 XX Sequence 10 BP; 1 A; 2 C; 2 G; 5 T; 0 U; 0 Other;
 SQ
 Query Match 30.0%; Score 9; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 43;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1483 ACCAGAG 1491
 DB 10 ACCAGAG 2
 RESULT 60
 AAF38820
 ID AAF38820 standard; DNA; 10 BP.
 AC AAF38820;
 XX 23-MAR-2001 (first entry)
 XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:5559.
 XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
 KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
 KW serial analysis of gene expression; antifungal; tag; identification;
 KW linker; PCR primer; de.

XX Saccharomyces cerevisiae.
 OS
 XX W0200077214-A2.
 PN
 XX 21-DEC-2000.
 XX 14-JUN-2000; 2000MO-US016223.
 XX 16-JUN-1999; 99US-00335032.
 XX (UYJO) UNIV JOHNS HOPKINS.
 PA Velculescu V, Vogelstein B, Kinzler K;
 PI WPI; 2001-061874/07.
 XX Yeast gene coding sequences comprising NORF genes with serial analysis of
 PT gene expression (SAGE) tags, useful for studying, monitoring and
 PT affecting phases of the cell cycle.
 XX Example; Page 198; 419pp; English.
 XX The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at
 CC least 10% between any two phases of the cell cycle selected from log
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast
 CC cell; and (b) monitoring expression of a NORF gene whose expression
 CC varies as in M1, where a test substance which modifies the expression of
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
 CC identifying human genes which are involved in cell cycle progression
 CC comprising contacting human DNA with a probe which comprises at least 10
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
 CC and (4) a method (M4) for identifying a candidate drug as a member of a
 CC class of drugs having a characteristic effect on gene expression in a
 CC yeast cell comprising contacting a yeast cell with a candidate drug and
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose
 CC expression is affected by the class of drugs. The NORF genes may be used
 CC to study, monitor and affect phases of the cell cycle, the differentially
 CC expressed genes may be used as markers of phases of the cell cycle. The
 CC methods may be used to identify candidate drugs which affect the cell
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
 CC represent SAGE tags used in the exemplification of the present invention.
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
 CC method, in the exemplification of the present invention
 XX Sequence 10 BP; 6 A; 2 C; 2 G; 0 T; 0 U; 0 Other;
 SQ
 Query Match 30.0%; Score 9; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 43;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1486 AAGAGCCA 1494
 DB 1 AAGAGCCA 9
 RESULT 61
 AAF41980
 ID AAF41980 standard; DNA; 10 BP.
 AC AAF41980;
 XX 23-MAR-2001 (first entry)
 XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:8719.
 DE Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
 KW Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;

KM nor previously assigned open reading frame; nonannotated ORF; SAGE;
 KM serial analysis of gene expression; antifungal; tag; identification;
 KM linker; PCR primer; ds.
 OS *Saccharomyces cerevisiae*.
 XX MO200077214-A2.
 PN 21-DEC-2000.
 PD 14-JUN-2000; 2000MO-US016223.
 PF 16-JUN-1999; 99US-00335032.
 PR (UYJO) UNIV JOHNS HOPKINS.
 PA Velulescu V, Vogelstein B, Kinzler K;
 XX WPI: 2001-061874/07.
 DR
 XX
 PT Yeast gene coding sequences comprising NORF genes with serial analysis of
 PT gene expression (SAGE) tags, useful for studying, monitoring and
 PT affecting phases of the cell cycle.
 PS Example; Page 311; 419pp; English.
 XX
 XX The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at
 CC least 10% between any two phases of the cell cycle selected from log
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast
 CC cell; and (b) monitoring expression of a NORF gene whose expression
 CC varies as in M1, where a test substance which modifies the expression of
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
 CC identifying human genes which are involved in cell cycle progression
 CC comprising contacting human DNA with a probe which comprises at least 10
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
 CC and (4) a method (M4) for identifying a candidate drug as a member of a
 CC class of drugs having a characteristic effect on gene expression in a
 CC yeast cell comprising contacting a yeast cell with a candidate drug and
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose
 CC expression is affected by the class of drugs. The NORF genes may be used
 CC to study, monitor and affect phases of the cell cycle, the differentially
 CC expressed genes may be used as markers of phases of the cell cycle. The
 CC methods may be used to identify candidate drugs which affect the cell
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
 CC represent SAGE tags used in the exemplification of the present invention.
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
 CC method, in the exemplification of the present invention
 XX
 SQ Sequence 10 BP; 4 A; 2 C; 4 G; 0 T; 0 U; 0 Other;
 QY
 Query Match 30.0%; Score 9; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 43;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 DB 2 AGAAGCCAG 1495
 2 AGAAGCCAG 10
 RESULT 62
 AAF38821
 ID AAF38821 standard; DNA; 10 BP.
 XX
 AC AAF38821;
 XX
 DT 23-MAR-2001 (first entry)
 XX

DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:5560.
 XX
 XX Yeast; *Saccharomyces cerevisiae*; characterisation; cell cycle; NORF;
 KM nor previously assigned open reading frame; nonannotated ORF; SAGE;
 KM serial analysis of gene expression; antifungal; tag; identification;
 KM linker; PCR primer; ds.
 XX
 OS *Saccharomyces cerevisiae*.
 XX MO200077214-A2.
 PN 21-DEC-2000.
 PD 14-JUN-2000; 2000MO-US016223.
 PF 16-JUN-1999; 99US-00335032.
 PR (UYJO) UNIV JOHNS HOPKINS.
 PA Velulescu V, Vogelstein B, Kinzler K;
 XX WPI: 2001-061874/07.
 DR
 XX
 PT Yeast gene coding sequences comprising NORF genes with serial analysis of
 PT gene expression (SAGE) tags, useful for studying, monitoring and
 PT affecting phases of the cell cycle.
 PS Example; Page 198; 419pp; English.
 XX
 XX The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at
 CC least 10% between any two phases of the cell cycle selected from log
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast
 CC cell; and (b) monitoring expression of a NORF gene whose expression
 CC varies as in M1, where a test substance which modifies the expression of
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
 CC identifying human genes which are involved in cell cycle progression
 CC comprising contacting human DNA with a probe which comprises at least 10
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
 CC and (4) a method (M4) for identifying a candidate drug as a member of a
 CC class of drugs having a characteristic effect on gene expression in a
 CC yeast cell comprising contacting a yeast cell with a candidate drug and
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose
 CC expression is affected by the class of drugs. The NORF genes may be used
 CC to study, monitor and affect phases of the cell cycle, the differentially
 CC expressed genes may be used as markers of phases of the cell cycle. The
 CC methods may be used to identify candidate drugs which affect the cell
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
 CC represent SAGE tags used in the exemplification of the present invention.
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
 CC method, in the exemplification of the present invention
 XX
 SQ Sequence 10 BP; 5 A; 2 C; 2 G; 1 T; 0 U; 0 Other;
 QY
 Query Match 30.0%; Score 9; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 43;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 DB 1 AGAAGCCA 5
 1 AGAAGCCA 1494
 RESULT 63
 AAF39528
 ID AAF39528 standard; DNA; 10 BP.
 XX
 AC AAF39528;
 XX

XX 23-MAR-2001 (first entry)
 XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:6267.
 DE
 XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
 KM nor previously assigned open reading frame; nonannotated ORF; SAGE;
 KW serial analysis of gene expression; antifungal; tag; identification;
 XX linker; PCR primer; ds.
 OS Saccharomyces cerevisiae.
 XX WO200077214-A2.
 XX 21-DEC-2000.
 XX 14-JUN-2000; 2000MO-US016223.
 XX 16-JUN-1999; 99US-00335032.
 XX (UYJO) UNITV JOHNS HOPKINS.
 XX Velculescu V, Vogelstein B, Kinzler K;
 PI MPI; 2001-061874/07.
 XX
 PT Yeast gene coding sequences comprising NORF genes with serial analysis of
 PT gene expression (SAGE) tags, useful for studying, monitoring and
 PT affecting phases of the cell cycle.
 XX
 PS Example; Page 223; 419pp; English.
 XX
 CC The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at
 CC least 10% between any two phases of the cell cycle selected from log
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast
 CC cell; and (b) monitoring expression of a NORF gene whose expression
 CC varies as in M1, where a test substance which modifies the expression of
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
 CC identifying human genes which are involved in cell cycle progression
 CC comprising contacting human DNA with a probe which comprises at least 10
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
 CC and (4) a method (M4) for identifying a candidate drug as a member of a
 CC class of drugs having a characteristic effect on gene expression in a
 CC yeast cell comprising contacting a yeast cell with a candidate drug and
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose
 CC expression is affected by the class of drugs. The NORF genes may be used
 CC to study, monitor and affect phases of the cell cycle, the differentially
 CC expressed genes may be used as markers of phases of the cell cycle. The
 CC methods may be used to identify candidate drugs which affect the cell
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
 CC represent SAGE tags used in the exemplification of the present invention.
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
 CC method, in the exemplification of the present invention
 XX
 XX Sequence 10 BP; 4 A; 2 C; 3 G; 1 T; 0 U; 0 Other;
 SQ
 Query Match 30.0%; Score 9; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 43;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1487 AGAAGCCAG 1495
 DB 1 AGAAGCCAG 9
 RESULT 64
 AAF38557

ID AAF38557 standard; DNA; 10 BP.
 XX AAF38557;
 AC
 XX 23-MAR-2001 (first entry)
 DT
 XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:5296.
 DE
 XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
 KM nor previously assigned open reading frame; nonannotated ORF; SAGE;
 KW serial analysis of gene expression; antifungal; tag; identification;
 XX linker; PCR primer; ds.
 OS Saccharomyces cerevisiae.
 XX WO200077214-A2.
 XX 21-DEC-2000.
 XX 14-JUN-2000; 2000MO-US016223.
 XX 16-JUN-1999; 99US-00335032.
 XX (UYJO) UNITV JOHNS HOPKINS.
 XX Velculescu V, Vogelstein B, Kinzler K;
 PI MPI; 2001-061874/07.
 XX
 PT Yeast gene coding sequences comprising NORF genes with serial analysis of
 PT gene expression (SAGE) tags, useful for studying, monitoring and
 PT affecting phases of the cell cycle.
 XX
 PS Example; Page 189; 419pp; English.
 XX
 CC The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at
 CC least 10% between any two phases of the cell cycle selected from log
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast
 CC cell; and (b) monitoring expression of a NORF gene whose expression
 CC varies as in M1, where a test substance which modifies the expression of
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
 CC identifying human genes which are involved in cell cycle progression
 CC comprising contacting human DNA with a probe which comprises at least 10
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
 CC and (4) a method (M4) for identifying a candidate drug as a member of a
 CC class of drugs having a characteristic effect on gene expression in a
 CC yeast cell comprising contacting a yeast cell with a candidate drug and
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose
 CC expression is affected by the class of drugs. The NORF genes may be used
 CC to study, monitor and affect phases of the cell cycle, the differentially
 CC expressed genes may be used as markers of phases of the cell cycle. The
 CC methods may be used to identify candidate drugs which affect the cell
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
 CC represent SAGE tags used in the exemplification of the present invention.
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
 CC method, in the exemplification of the present invention
 XX
 XX Sequence 10 BP; 5 A; 3 C; 2 G; 0 T; 0 U; 0 Other;
 SQ
 Query Match 30.0%; Score 9; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 43;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1489 AAGCCAGAC 1497
 DB 2 AAGCCAGAC 10

RESULT 65	ID	AD31785	standard; DNA; 10 BP.
AD31785	AD31785	AD31785	standard; DNA; 10 BP.
DT	18-JUN-2002	(first entry)	
DE	MR 7	arbitrary primer used for modified differential display.	
XX			
KM	Cytotoxic T cell; CTL; tumour; cancer; infection; cell-mediated immunity;		
XX	vaccine; immune response; cytostatic; primer; ss.		
OS	Unidentified.		
XX			
PN	US2002018785-A1.		
XX			
PD	14-FEB-2002.		
XX			
XP	02-APR-2001; 2001US-009222250.		
XX			
PR	22-SEP-1997; 97US-00935377.		
XX			
PA	(UVRP) UNIV ROCHESTER.		
XX			
FI	Zauderer M,		
XX			
DR	WPI; 2002-239252/29.		
XX			
PT	Representational Difference Analysis method for identification of		
PT	antigens recognised by cytotoxic T cells and specific for human tumore,		
PT	comprises improved selection of genes encoding target antigens.		
XX			
PS	Example 4; Page 19; 54pp; English.		
XX			
CC	The present invention relates to novel methods for the identification of		
CC	antigens recognised by cytotoxic T cells (CTs) and specific for human		
CC	tumours, cancers and infected cells. The method involves screening the		
CC	products of an expression library generated from DNA/RNA of a cell		
CC	expressing a target epitope with cytotoxic T cells generated against the		
CC	cell to identify DNA clones expressing target epitope or providing		
CC	cytotoxic T cells specific for a gene product differentially expressed by		
CC	a cell and measuring the cross-reactivity of the cytotoxic T cells for		
CC	cells expressing a target epitope in which the target epitope is		
CC	identified as a gene product inducing cytotoxic T cells. The method is		
CC	useful for identifying a target epitope or antigen specific for a tumour		
CC	cell. The target epitope is also useful for identifying target antigens		
CC	in other target cells against which it is desirable to induce cell-		
CC	mediated immunity. The antigen identified by the method is useful in		
CC	immunogenic compositions and vaccine preparations to induce the		
CC	regression of tumours, cancers and infections in mammals. The invention		
CC	also relates to vaccinia viral vectors which are useful for treating		
CC	tumour-bearing mammals, including humans to generate immune response		
CC	against the tumour cells. They are also useful for immunising or		
CC	vaccinating tumour-free subjects to prevent tumour formation. The present		
CC	DNA sequence is an arbitrary primer which is used for modified		
CC	differential display of genes encoding potential tumour immunogens. This		
CC	primer is used in the exemplification of the invention		
XX			
SO	Sequence 10 BP; 3 A; 3 C; 1 G; 3 T; 0 U; 0 Other;		
QY	Query Match	30.0%; Score 9; DB 1; Length 10;	
db	Best Local Similarity	100.0%; Pred.No. 43;	
	Matches 9; Conservative	0; Mismatches 0; Indels 0; Gaps 0;	
	1493 CAGACTTCA 1501		
	2 CAGACTTCA 10		

```

ID   ABQ87208 standard; cDNA; 11 BP.
XX
AC   ABQ87208;
DT   10-SEP-2002 (first entry)
XX
DE   Human skin stress/ageing related EST SEQ ID NO 963.
XX
KW   Human; skin ageing; skin stress; EST; expressed sequence tag; ss.
OS   Homo sapiens.
XX
PN   WO200253773-A2.
PD   11-JUL-2002.
XX
PF   20-DEC-2001; 2001WO-EP015178.
XX
PR   03-JAN-2001; 2001DE-01000121.
XX
PA   (HENKEL ) HENKEL KGfA.
XX
PI   Petersohn D, Conradt M, Hofmann K;
DR   WPI; 2002-528865/56.
XX
PT   Identifying genes involved in skin stress and aging, useful e.g. in
PT   screening for cosmetic or therapeutic agents, based on differential gene
XX   expression.
XX
PS   Claim 8; Page 77; 325pp; German.
XX
CC   The invention relates to identifying (M1) genes in vitro that, in humans
CC   or animals, are important for skin ageing and/or skin stress by serial
CC   analysis of gene expression between mixtures of transcribed and
CC   optionally translated, genetically encoded factors (A) obtained from
CC   young and aged skin, to identify that genes that show strong differential
CC   expression. (A) comprises protein or mRNAs or their fragments. (M1) is
CC   useful for: identifying markers of skin ageing and/or stress; determining
CC   skin ageing and/or stress; and identifying or determining the effects of
CC   pharmaceutical or cosmetic agents for control of skin ageing. The present
CC   sequence is one of a group of human skin ageing/stress related expressed
CC   sequence tags (ABQ86246-ABQ87680) of the invention
XX
SQ   Sequence 11 BP; 1 A; 2 C; 4 G; 4 T; 0 U; 0 Other;
Query Match      30.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 47;
Matches    9; Conservative    0; Mismatches    0; Indels    0; Gaps    0;
OY       1490 AGCCAGACT 1498
DB         |||||
          11 AGCCAGACT 3
RESULT 67
ABV69313/c
ID   ABV69313 standard; cDNA; 11 BP.
XX
AC   ABV69313;
DT   21-OCT-2002 (first entry)
XX
DE   Human skin EST 7099.
XX
KW   Human; skin; dermatological; vulnery; antiporiotic; antiabortifacic;
KW   immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
KW   psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; se.
XX
OS   Homo sapiens.
XX
PN   WO200253774-A2.
XX
```

PD 11-JUL-2002.
XX
PF 20-DEC-2001; 2001WO-EP015179.
XX
PR 03-JAN-2001; 2001DE-01000127.
XX
PA (HENK) HENKEL KGAA.
XX
PI Petersohn D, Conradt M, Hofmann K;
XX WPI; 2002-590638/63.
DR
XX
XX In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.
XX
PS Disclosure; Page 223; 1345pp; German.
XX
XX The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention
XX
SQ Sequence 11 BP; 0 A; 2 C; 5 G; 4 T; 0 U; 0 Other;
XX
Query Match 30.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 47;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 1500 CAGCAGCCA 1508
DB 10 CAGCAGCCA 2
XX
RESULT 68
ABV71907/c
ID ABV71907 standard; cDNA; 11 BP.
XX
XX ABV71907;
AC
XX 21-OCT-2002 (first entry)
DT
XX Human skin EST 9693.
DE
XX Human skin EST 9693.
XX
XX Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX
XX Homo sapiens.
OS
XX WO200253774-A2.
PN
XX 11-JUL-2002.
PD
XX 20-DEC-2001; 2001WO-EP015179.
PF
XX 03-JAN-2001; 2001DE-01000127.
PR
XX (HENK) HENKEL KGAA.
PA
XX Petersohn D, Conradt M, Hofmann K;
PI
XX WPI; 2002-590638/63.
DR
XX In vitro identification of skin-expressed genes, useful for determining

PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.
XX
XX Claim 24; Page 313; 1345pp; German.
PS
XX The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention
XX
SQ Sequence 11 BP; 1 A; 2 C; 4 G; 4 T; 0 U; 0 Other;
XX
Query Match 30.0%; Score 9; DB 1; Length 11;
Best Local Similarity 100.0%; Pred. No. 47;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
XX
QY 1490 AGCCAGACT 1498
DB 11 AGCCAGACT 3
XX
RESULT 69
ABV64486/c
ID ABV64486 standard; cDNA; 11 BP.
XX
XX ABV64486;
AC
XX 21-OCT-2002 (first entry)
DT
XX Human skin EST 2272.
DE
XX Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX
XX Homo sapiens.
OS
XX WO200253774-A2.
PN
XX 11-JUL-2002.
PD
XX 20-DEC-2001; 2001WO-EP015179.
PF
XX 03-JAN-2001; 2001DE-01000127.
PR
XX (HENK) HENKEL KGAA.
PA
XX Petersohn D, Conradt M, Hofmann K;
PI
XX WPI; 2002-590638/63.
DR
XX In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.
XX
PS Disclosure; Page 88; 1345pp; German.
XX
XX The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;

CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus; the
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
 CC skin. The present sequence is that of a human expressed sequence tag
 CC (EST) of the invention
 XX

SO Sequence 11 BP; 1 A; 2 C; 4 G; 4 T; 0 U; 0 Other;

Query Match 30.0%; Score 9; DB 1; Length 11;
 Best Local Similarity 100.0%; Pred. No. 47;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1490 AGCCAGACT 1498
 |||||
 DB 11 AGCCAGACT 3

RESULT 70

ID ABV66240 standard; cDNA; 11 BP.

AC ABV66240;

DT 21-OCT-2002 (first entry)

DE Human skin EST 4026.

XX Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
 KM immunosuppressive; antinflammatory; cytostatic; SAGE; neurodermatitis;
 KM psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.

OS Homo sapiens.

PN WO200253774-A2.

PD 11-JUL-2002.

PF 20-DEC-2001; 2001WO-EP015179.

PR 03-JAN-2001; 2001DE-01000127.

PA (HENK) HENKEL KGAA.

PI Petersohn D, Conradt M, Hofmann K;

DR WPI; 2002-590638/63.

PT In vitro identification of skin-expressed genes, useful for determining
 PT homeostasis and identifying cosmetic or pharmaceutical agents against
 PT e.g. skin cancer.

PS Disclosure; Page 136; 1345pp; German.

XX The invention relates to in vitro identification (M1) of genes expressed
 CC in the skin of humans or animals by subjecting a mixture of genetically
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)
 CC so as to identify skin-expressed genes and quantify their expression.
 CC (M1) is useful for identifying genes involved in skin homeostasis; to
 CC determine skin homeostasis and to test agent (A) that maintains or
 CC promotes skin homeostasis or that can be used for treating skin
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
 CC skin. The present sequence is that of a human expressed sequence tag
 CC (EST) of the invention
 XX

SO Sequence 11 BP; 3 A; 3 C; 3 G; 2 T; 0 U; 0 Other;

Query Match 30.0%; Score 9; DB 1; Length 11;
 Best Local Similarity 100.0%; Pred. No. 47;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1498 TTGACGAGC 1506
 |||||

DB 1 TTGACGAGC 3

RESULT 71

ID ABV67707/c

ID ABV67707 standard; cDNA; 11 BP.

AC ABV67707;

DT 21-OCT-2002 (first entry)

DE Human skin EST 5493.

XX Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
 KM immunosuppressive; antinflammatory; cytostatic; SAGE; neurodermatitis;
 KM psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.

OS Homo sapiens.

PN WO200253774-A2.

PD 11-JUL-2002.

PF 20-DEC-2001; 2001WO-EP015179.

PR 03-JAN-2001; 2001DE-01000127.

PA (HENK) HENKEL KGAA.

PI Petersohn D, Conradt M, Hofmann K;

DR WPI; 2002-590638/63.

PT In vitro identification of skin-expressed genes, useful for determining
 PT homeostasis and identifying cosmetic or pharmaceutical agents against
 PT e.g. skin cancer.

PS Disclosure; Page 176; 1345pp; German.

XX The invention relates to in vitro identification (M1) of genes expressed
 CC in the skin of humans or animals by subjecting a mixture of genetically
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)
 CC so as to identify skin-expressed genes and quantify their expression.
 CC (M1) is useful for identifying genes involved in skin homeostasis; to
 CC determine skin homeostasis and to test agent (A) that maintains or
 CC promotes skin homeostasis or that can be used for treating skin
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
 CC skin. The present sequence is that of a human expressed sequence tag
 CC (EST) of the invention
 XX

SO Sequence 11 BP; 1 A; 3 C; 4 G; 3 T; 0 U; 0 Other;

Query Match 30.0%; Score 9; DB 1; Length 11;
 Best Local Similarity 100.0%; Pred. No. 47;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1500 CAGCAGCA 1508
 |||||
 DB 11 CAGCAGCA 3

RESULT 72

ID AAQ57385/c

ID AAQ57385 standard; mRNA; 12 BP.

AC AAQ57385;

DT 25-MAR-2003 (revised)

DT 26-JUL-1994 (first entry)

DE Enzymatic RNA molecule ACE mRNA target sequence.


```

XX Specific; cleavage; target RNA; protein; prophylaxis; expression;
KW inhibitor; inhibition; ribozyme; treatment; prevention; psoriasis;
KW asthma; inflammatory diseases; cardiovascular condition; hypertension;
KW arthritis; restenosis; angiotensin converting enzyme; ss.
XX Synthetic.
OS
XX WO9402595-A1.
PN
XX 03-FEB-1994.
PD
XX 02-JUL-1993; 93WO-US006316.
PF
XX 17-JUL-1992; 92US-00916763.
PR 07-DEC-1992; 92US-00987132.
PR 07-DEC-1992; 92US-00989848.
PR 07-DEC-1992; 92US-00989849.
PR 19-JAN-1993; 93US-0008895.
XX
XX (RIBO-) RIBOZYME PHARM INC.
PA
XX Sullivan SM, Draper KG;
PI
XX WPI; 1994-048853/06.
DR
XX Enzymatic RNA molecules which cleave mRNA - used to treat or prevent
PT inflammatory, arthritic, stenotic or cardiovascular diseases or
PT conditions.
XX Claim 3; Page 23; 65pp; English.
PS
XX This is a ACE mRNA target sequence (nucleotide no. 2076) of an enzymatic
CC RNA molecule (ribozyme) which cleaves mRNA associated with the
CC development or maintenance of a cardiovascular condition. The concn. of
CC the ribozyme necessary to effect a therapeutic treatment is lower than
CC that of an antisense oligonucleotide and the specificity of action is
CC higher. (Updated on 25-MAR-2003 to correct PN field.)
XX
SQ Sequence 12 BP; 1 A; 3 C; 5 G; 3 T; 0 U; 0 Other;
Query Match 30.0%; Score 9; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 51;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1500 CAGCAGCCA 1508
DB 11 CAGCAGCCA 3
RESULT 73
ABIS5792
ID ABIS5792 standard; DNA; 12 BP.
XX
AC ABIS5792;
XX
XX 22-FEB-2002 (first entry)
DT
XX Oligonucleotide primer SEQ ID NO 355765 for detecting SNP TSC0049803.
DE
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
OS
XX WO200177384-A2.
PN
XX 18-OCT-2001.
PD
XX 06-APR-2001; 2001WO-IB000713.
PF
XX 07-APR-2001; 2000DE-01019173.
PS
XX 07-APR-2000; 2000DE-01019173.

```

```

XX
PA (EPIC-) EPIGENOMICS AG.
XX
PI Olek A, Piepenbrock C, Berlin K;
XX
XX WPI; 2001-657177/75.
DR
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX Claim 1; SEQ ID NO 355765; 29pp + Sequence Listing; German.
PS
XX
XX This invention describes novel oligonucleotide primers or peptide nucleic
CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
CC and cytosine methylation status in chemically pretreated genomic DNA. The
CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
CC range of diseases including immune system, gastrointestinal, respiratory,
CC central nervous system, cardiovascular and metabolic disorders. The
CC oligomers are also used for detecting cell type differentiation. ABC00010
CC -ABC99989, ABR00010-ABF99989, ABH00010-ABH99989 and AB100010-AB182073
CC represent the oligomers described in the invention. NOTE: The sequence
CC data for this patent did not form part of the printed specification, but
CC was obtained in electronic format from WIPO at
CC ftp.wipo.int/pub/published_pct_sequences
XX
SQ Sequence 12 BP; 4 A; 5 C; 1 G; 2 T; 0 U; 0 Other;
Query Match 30.0%; Score 9; DB 1; Length 12;
Best Local Similarity 100.0%; Pred. No. 51;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 1479 CAGCAGCAA 1487
DB 1 CAGCAGCAA 9
RESULT 74
ABH93993
ID ABH93993 standard; DNA; 12 BP.
XX
AC ABH93993;
XX
XX 22-FEB-2002 (first entry)
DT
XX Oligonucleotide primer SEQ ID NO 293986 for detecting SNP TSC0015906.
DE
XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
KW peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
KW central nervous system; gastrointestinal; respiratory; immune; metabolic.
XX
XX Homo sapiens.
OS
XX WO200177384-A2.
PN
XX 18-OCT-2001.
PD
XX 06-APR-2001; 2001WO-IB000713.
PF
XX 07-APR-2000; 2000DE-01019173.
PR
XX (EPIC-) EPIGENOMICS AG.
PA
XX Olek A, Piepenbrock C, Berlin K;
PI
XX WPI; 2001-657177/75.
DR
XX
XX Set of oligonucleotides, useful for diagnosis and cell typing, is
PT designed to detect single-nucleotide polymorphisms and cytosine
PT methylation status.
XX
XX Claim 1; SEQ ID NO 293986; 29pp + Sequence Listing; German.
XX

```

CC This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010 -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but CC was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences

CC Sequence 12 BP; 4 A; 7 C; 1 G; 0 T; 0 U; 0 Other;

XX SQ

XX Query Match 30.0%; Score 9; DB 1; Length 12;

XX Best Local Similarity 100.0%; Pred. No. 51;

XX Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1479 CACGACCAA 1487

DB 1 CACGACCAA 9

RESULT 75

ABH84166/c

XX ID ABH84166 standard; DNA; 12 BP.

XX AC ABH84166;

XX DT 22-FEB-2002 (first entry)

XX DE Oligonucleotide primer SEQ ID NO 284159 for detecting SNP TSC0011692.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

XX central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

XX WO200177384-A2.

XX 18-OCT-2001.

XX 06-APR-2001; 2001WO-IB000713.

XX 07-APR-2000; 2000DE-01019173.

XX (EPIC-) EPIGENOMICS AG.

XX Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is

XX designed to detect single-nucleotide polymorphisms and cytosine

XX methylation status.

XX Claim 1; SEQ ID NO 284159; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010 -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but CC was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences

SQ Sequence 12 BP; 2 A; 1 C; 5 G; 4 T; 0 U; 0 Other;

XX Query Match 30.0%; Score 9; DB 1; Length 12;

XX Best Local Similarity 100.0%; Pred. No. 51;

XX Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1479 CACGACCAA 1487

DB 12 CACGACCAA 4

RESULT 76

ABI32013/c

XX ID ABI32013 standard; DNA; 12 BP.

XX AC ABI32013;

XX DT 22-FEB-2002 (first entry)

XX DE Oligonucleotide primer SEQ ID NO 331986 for detecting SNP TSC0036632.

XX SNP; single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;

XX peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;

XX central nervous system; gastrointestinal; respiratory; immune; metabolic.

XX Homo sapiens.

XX WO200177384-A2.

XX 18-OCT-2001.

XX 06-APR-2001; 2001WO-IB000713.

XX 07-APR-2000; 2000DE-01019173.

XX (EPIC-) EPIGENOMICS AG.

XX Olek A, Piepenbrock C, Berlin K;

XX WPI; 2001-657177/75.

XX Set of oligonucleotides, useful for diagnosis and cell typing, is

XX designed to detect single-nucleotide polymorphisms and cytosine

XX methylation status.

XX Claim 1; SEQ ID NO 331986; 29pp + Sequence Listing; German.

XX This invention describes novel oligonucleotide primers or peptide nucleic acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP) and cytosine methylation status in chemically pretreated genomic DNA. The oligonucleotides are used for diagnosis and/or prognosis of cancer and a range of diseases including immune system, gastrointestinal, respiratory, central nervous system, cardiovascular and metabolic disorders. The oligomers are also used for detecting cell type differentiation. ABC00010 -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and ABI00010-ABI82073 represent the oligomers described in the invention. NOTE: The sequence data for this patent did not form part of the printed specification, but CC was obtained in electronic format from WIPO at ftp.wipo.int/pub/published_pct_sequences

XX Sequence 12 BP; 1 A; 1 C; 4 G; 6 T; 0 U; 0 Other;

XX Query Match 30.0%; Score 9; DB 1; Length 12;

XX Best Local Similarity 100.0%; Pred. No. 51;

XX Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1479 CACGACCAA 1487

DB 9 CACGACCAA 1

RESULT 77

ABI77576

ID AB177576 standard; DNA; 12 BP.
 AC AB177576;
 XX
 DT 22-FEB-2002 (first entry)
 XX
 DE Oligonucleotide primer SEQ ID NO 377549 for detecting SNP TSC0062385.
 XX
 KM SNP: single nucleotide polymorphism; human; diagnosis; PNA; cancer; CNS;
 KM peptide nucleic acid; cytosine methylation; cardiovascular; primer; ss;
 KM central nervous system; gastrointestinal; respiratory; immune; metabolic.
 XX
 OS Homo sapiens.
 XX
 PN WO200177384-A2.
 XX
 PD 18-OCT-2001.
 XX
 PF 06-APR-2001; 2001WO-IB000713.
 XX
 PR 07-APR-2000; 2000DE-01019173.
 XX
 PA (EPIC-) EPIDENOMICS AG.
 XX
 PI Olek A, Piepenbrock C, Berlin K;
 XX
 DR WPI; 2001-657177/75.
 XX
 PT Set of oligonucleotides, useful for diagnosis and cell typing, is
 PT designed to detect single-nucleotide polymorphisms and cytosine
 PT methylation status.
 XX
 PS Claim 1; SEQ ID NO 377549; 29pp + Sequence Listing; German.
 XX
 CC This invention describes novel oligonucleotide primers or peptide nucleic
 CC acid (PNA) oligomers for detecting single nucleotide polymorphisms (SNP)
 CC and cytosine methylation status in chemically pretreated genomic DNA. The
 CC oligonucleotides are used for diagnosis and/or prognosis of cancer and a
 CC range of diseases including immune system, gastrointestinal, respiratory,
 CC central nervous system, cardiovascular and metabolic disorders. The
 CC oligomers are also used for detecting cell type differentiation. ABC00010
 CC -ABC99989, ABF00010-ABF99989, ABH00010-ABH99989 and AB100010-AB102073
 CC represent the oligomers described in the invention. NOTE: The sequence
 CC data for this patent did not form part of the printed specification, but
 CC was obtained in electronic format from WIPO at
 CC ftp.wipo.int/pub/published_pct_sequences
 XX
 SQ Sequence 12 BP; 5 A; 4 C; 1 G; 2 T; 0 U; 0 Other;
 XX
 Query Match 30.0%; Score 9; DB 1; Length 12;
 Best Local Similarity 100.0%; Pred.No. 51;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1479 CACGACCAA 1487
 Db 1 CACGACCAA 9
 XX
 RESULT 78
 AAG99836
 ID AAG99836 standard; cDNA; 10 BP.
 XX
 AC AAG99836;
 XX
 DT 06-MAR-1996 (first entry)
 XX
 DE Eucalyptus wood volume marker half-sib primer V7.
 XX
 KM Eucalyptus; urophylla; grandis; wood volume marker; RAPD genetic marker;
 KM random amplified polymorphic DNA analysis; woody perennial plant;
 KM family selection; pedigree; mapping; primer; ss.
 XX
 OS Synthetic.

XX
 PN MO9519697-A1.
 XX
 PD 27-JUL-1995.
 XX
 PF 19-JAN-1995; 95WO-US000677.
 XX
 PR 21-JAN-1994; 94US-00184567.
 XX
 PA (UYNC-) UNIV NORTH CAROLINA STATE.
 XX
 PI Omalley DM, Sederoff RR, Grattapaglia D;
 XX
 DR WPI; 1995-269212/35.
 XX
 PT Determn. of heritable oligogenic traits in woody plants by genomic
 PT mapping of multiple markers in a two generation plant family - used to
 PT select plants with desired characteristics for breeding.
 XX
 PS Example 6; Page 58; 103pp; English.
 XX
 CC RAPD analysis was used to determine whether certain quantitative traits
 CC were heritable oligogenic traits in Eucalyptus trees. Sets of
 CC commercially available random 10-mer primers were used to amplify
 CC fragments from the genomic DNA of E. urophylla, E. grandis and F1 progeny
 CC obtained by crossing the two species. Subsequent mapping analysis showed
 CC that the half-sib primers in AAG99834-Q99840 are all useful for
 CC amplifying wood volume markers from Eucalyptus
 XX
 SQ Sequence 10 BP; 3 A; 4 C; 3 G; 0 T; 0 U; 0 Other;
 XX
 Query Match 28.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred.No. 56;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1488 GAAGCCAGAC 1497
 Db 1 GAAGCCAGAC 10
 XX
 RESULT 79
 AAV50097
 ID AAV50097 standard; DNA; 10 BP.
 XX
 AC AAV50097;
 XX
 DT 21-OCT-1998 (first entry)
 XX
 DE Yeast tag for putative coding sequence locus YBR162C.
 XX
 KM Yeast; Saccharomyces cerevisiae; transcriptome; cell cycle; regulation;
 KM eukaryotic cell; antifungal; SAGE tag; gene expression;
 KM serial analysis of gene expression; probe; ss.
 XX
 OS Saccharomyces cerevisiae.
 OS Synthetic.
 XX
 PN WO9832847-A2.
 XX
 PD 30-JUL-1998.
 XX
 PF 22-JAN-1998; 98WO-US001216.
 XX
 PR 23-JAN-1997; 97US-0035917P.
 XX
 PA (UYJO) UNIV JOHNS HOPKINS SCHOOL MEDICINE.
 XX
 PI Velculescu VE, Vogelstein B, Kinzler KW;
 XX
 DR WPI; 1998-427943/36.
 XX
 PT Yeast transcriptome - useful for modulating eukaryotic cell, for
 PT screening antifungal agents, and for identifying genes in cell cycle

Query Match 28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 56;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1488 GAAGCCAGAC 1497
Db 1 GAAGCCAGAC 10

RESULT 82
AAZ79223
AAZ79223 standard; DNA; 10 BP.

AC AAZ79223;
XX 10-APR-2000 (first entry)
XX Human dendritic cell SAGE tag, SEQ ID NO:1651.
XX
XX SAGE tag: serial analysis of gene expression; antigen-presenting cell;
XX APC; monocyte-derived dendritic cell; differential gene expression;
XX immunostimulatory cofactor; costimulatory factor; CTL;
XX cytotoxic T-lymphocyte; tumour antigen; immunotherapy; anticancer; ss.
XX
XX Homo sapiens.
XX
XX WO965924-A2.
XX
XX 23-DEC-1999.
XX
XX 18-JUN-1999; 99WO-US013800.
XX
XX 19-JUN-1998; 98US-0089833P.
XX 19-JUN-1998; 98US-0089844P.
XX 19-JUN-1998; 98US-0089853P.
XX 19-JUN-1998; 98US-0089878P.
XX 19-JUN-1998; 98US-0089919P.
XX 19-JUN-1998; 98US-0089922P.
XX 19-JUN-1998; 98US-0089933P.
XX 19-JUN-1998; 98US-0089944P.
XX 19-JUN-1998; 98US-0089979P.
XX 19-JUN-1998; 98US-0089999P.
XX 19-JUN-1998; 98US-0090000P.
XX 19-JUN-1998; 98US-0090035P.
XX 19-JUN-1998; 98US-0090036P.
XX 19-JUN-1998; 98US-0090039P.
XX 19-JUN-1998; 98US-0090040P.
XX 19-JUN-1998; 98US-0090041P.
XX 19-JUN-1998; 98US-0090042P.
XX 19-JUN-1998; 98US-0090043P.
XX 19-JUN-1998; 98US-0090044P.
XX 19-JUN-1998; 98US-0090045P.
XX 19-JUN-1998; 98US-0090047P.
XX 19-JUN-1998; 98US-0090048P.
XX 19-JUN-1998; 98US-0090072P.
XX 19-JUN-1998; 98US-0090076P.
XX 19-JUN-1998; 98US-0090077P.
XX 19-JUN-1998; 98US-0090078P.
XX 19-JUN-1998; 98US-0090079P.
XX 19-JUN-1998; 98US-0090080P.
XX 08-DEC-1998; 98US-0111715P.

XX (GENZ) GENZYME CORP.
XX (ROBE/) ROBERTS B L.
XX (SHAN/) SHANKARA S.
XX
XX Roberts BL, Shankara S;
XX
XX WPI, 2000-106077/09.
XX
XX Isolated polynucleotides differentially expressed in antigen-presenting
XX cells, useful in gene vaccines against cancer.
XX
XX

XX Claim 1; Page 112; 130pp; English.
PS
XX Sequences AAZ7573-279709 represent SAGE (serial analysis of gene
CC expression) tags used to identify mRNA transcripts encoding
CC immunostimulatory cofactor proteins which are preferentially or
CC differentially expressed in monocyte-derived dendritic cells compared
CC with monocytes. Some of the transcripts correspond to known genes or ESTs
CC (expressed sequence tags) which were previously unknown to be
CC preferentially or differentially expressed in dendritic cells, while
CC other transcripts correspond to novel genes. Antigen-presenting cell
CC (APC)-associated costimulatory factors play an important role in the
CC activation of the cytotoxic immune response, particularly against tumour
CC cells. Tumour antigen presentation via the MHC (major histocompatibility
CC complex) and subsequent recognition by T-cell receptors is alone
CC insufficient to activate a robust cytotoxic immune response that can lyse
CC the tumour cells, immunostimulatory cofactors also being required for
CC efficient activation of cytotoxic T-lymphocytes (CTLs). Nucleic acid
CC sequences identified using the SAGE tags have several potential uses.
CC They may be used in vaccines to induce an immune response, particularly
CC against a tumour antigen, to modulate the genotype of an APC; to screen
CC for agents that modulate expression of differentially expressed genes in
CC an APC; and as hybridisation probes/amplification primers for the
CC diagnosis, prognosis and monitoring of diseases related to abnormal
CC expression of these genes. Detection of the dendritic cell differentially
CC expressed genes, or of their encoded proteins, can be used to identify
CC cells as belonging to the monocyte lineage. Cells containing these genes
CC can be used in active immunotherapy (or to stimulate production of a
CC population of antigen-specific effector cells) and vectors containing
CC them are used in gene therapy. Co-administration of tumour antigens and
CC APC-associated costimulatory factors ensures adequate antigen
CC presentation to endogenous APCs and upregulates the APCs for the
CC presentation of co-stimulatory signals, migration to T cell-rich sites,
CC secretion of T cell growth factors and secretion of chemokines for
CC recruitment of immune effector cells
XX
SQ Sequence 10 BP; 3 A; 4 C; 3 G; 0 T; 0 U; 0 Other;

Query Match 28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 56;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1488 GAAGCCAGAC 1497
Db 1 GAAGCCAGAC 10

RESULT 83
AAZ82715
AAZ82715 standard; DNA; 10 BP.

XX AAZ82715;
XX
XX 07-APR-2000 (first entry)
XX
XX Metastatic breast tumour cell upregulated transcript tag #1949.
XX
XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
XX non-metastatic breast tumour tissue; gene therapy; anticancer;
XX antimetastatic; vaccine; diagnosis; ss.
XX
XX Homo sapiens.
XX
XX WO965928-A2.
XX
XX 23-DEC-1999.
XX
XX 18-JUN-1999; 99WO-US013647.
XX
XX 19-JUN-1998; 98US-0089853P.
XX 19-JUN-1998; 98US-0089979P.
XX 19-JUN-1998; 98US-0090039P.
XX 19-JUN-1998; 98US-0090040P.

```

PR 19-JUN-1998; 98US-0090041P.
XX
XX (GENZ ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
PI Roberts BL, Shankara S;
XX
XX WPI; 2000-106079/09.
XX
PT Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
XX
PS Claim 1; Page 111; 219pp; English.
XX
CC AA280767 to AA283941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942
CC to AA286677 represent tags corresponding to distinct transcripts that are
CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is
CC by standard immunoassays or hybridisation/amplification reactions.
CC Compounds that modulate expression of the transcripts are potentially
CC useful for treatment of (metastatic) breast cancer, while promoters from
CC the transcripts are used to direct expression, in selected cell types, of
CC e.g. therapeutic genes (also ribozymes or antisense sequences),
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines. Polypeptides encoded by the transcripts are also useful in
CC vaccines; for diagnosing breast cancer and for raising specific
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy
XX
SQ Sequence 10 BP; 4 A; 4 C; 1 G; 1 T; 0 U; 0 Other;
XX
Query Match 28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 56;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1499 TCAGCAGCCA 1508
DB 1 TCAGCAGCCA 10
XX
RESULT 84
AA281205/c
ID AA281205 standard; DNA; 10 BP.
XX
XX AA281205;
AC
XX 07-APR-2000 (first entry)
DT
XX
XX Metastatic breast tumour cell upregulated transcript tag #439.
DE
XX
XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KW non-metastatic breast tumour tissue; gene therapy; anticancer;
KW antimetastatic; vaccine; diagnosis; ss.
XX
XX Homo sapiens.
OS
XX
XX WO965928-A2.
PN
XX 23-DEC-1999.
PD
XX 18-JUN-1999; 99WO-US013647.
PF
XX 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-008997P.

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PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
XX
XX (GENZ ) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
PI Roberts BL, Shankara S;
XX
XX WPI; 2000-106079/09.
XX
PT Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
XX
PS Claim 1; Page 70; 219pp; English.
XX
CC AA280767 to AA283941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942
CC to AA286677 represent tags corresponding to distinct transcripts that are
CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is
CC by standard immunoassays or hybridisation/amplification reactions.
CC Compounds that modulate expression of the transcripts are potentially
CC useful for treatment of (metastatic) breast cancer, while promoters from
CC the transcripts are used to direct expression, in selected cell types, of
CC e.g. therapeutic genes (also ribozymes or antisense sequences),
CC particularly an antigen-encoding sequence for use in gene or cell-based
CC vaccines. Polypeptides encoded by the transcripts are also useful in
CC vaccines; for diagnosing breast cancer and for raising specific
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy
XX
SQ Sequence 10 BP; 0 A; 4 C; 1 G; 5 T; 0 U; 0 Other;
XX
Query Match 28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 56;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1486 AAGAGCCAG 1495
DB 10 AAGAGCCAG 1
XX
RESULT 85
AA282619
ID AA282619 standard; DNA; 10 BP.
XX
XX AA282619;
AC
XX 07-APR-2000 (first entry)
DT
XX
XX Metastatic breast tumour cell upregulated transcript tag #1853.
DE
XX
XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;
KW non-metastatic breast tumour tissue; gene therapy; anticancer;
KW antimetastatic; vaccine; diagnosis; ss.
XX
XX Homo sapiens.
OS
XX
XX WO965928-A2.
PN
XX 23-DEC-1999.
PD
XX 18-JUN-1999; 99WO-US013647.
PF
XX
XX

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PR 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
XX
PA (GEN2) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
PI Roberts BL, Shankara S;
DR WPI; 2000-106079/09.
XX
XX
PT Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.
PS Claim 1; Page 108; 219pp; English.

XX
CC AA280767 to AA283941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942
CC to AA286677 represent tags corresponding to distinct transcripts that are
CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is
CC by standard immunoassays or hybridisation/amplification reactions.
CC Compounds that modulate expression of the transcripts are potentially
CC useful for treatment of (metastatic) breast cancer, while promoters from
CC the transcripts are used to direct expression, in selected cell types, of
CC e.g. therapeutic genes (also ribozymes or antisense sequences).
CC particularly an antigen encoding sequence for use in gene or cell-based
CC vaccines. Polypeptides encoded by the transcripts are also useful in
CC vaccines; for diagnosing breast cancer and for raising specific
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy
CC
XX

SO Sequence 10 BP; 3 A; 4 C; 3 G; 0 T; 0 U; 0 Other;

Query Match 28.0%; Score 8.4; DB 1; Length 10;

Best Local Similarity 90.0%; Pred. No. 56;

Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1488 GAAGCCAGAC 1497

Db 1 GAAGCCAGCC 10

RESULT 86
AA284503
ID AA284503 standard; DNA; 10 BP.

XX AA284503;

DT 07-APR-2000 (first entry)

DE Metastatic breast tumour cell downregulated transcript tag #3737.

XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;

KW non-metastatic breast tumour tissue; gene therapy; anticancer;

KM antimetastatic; vaccine; diagnosis; ss.

XX Homo sapiens.

OS WO965928-A2.

XX 23-DEC-1999.

XX

PF 18-JUN-1999; 99WO-US013647.
XX
XX 19-JUN-1998; 98US-0089853P.
PR 19-JUN-1998; 98US-0089997P.
PR 19-JUN-1998; 98US-0090039P.
PR 19-JUN-1998; 98US-0090040P.
PR 19-JUN-1998; 98US-0090041P.
XX
PA (GEN2) GENZYME CORP.
PA (ROBE/) ROBERTS B L.
PA (SHAN/) SHANKARA S.
PI Roberts BL, Shankara S;
DR WPI; 2000-106079/09.
XX
XX
PT Isolated polynucleotides differentially expressed between metastatic and
PT non-metastatic breast cancer cells, useful for diagnosis, prevention and
PT treatment of cancer.

PS Claim 1; Page 158; 219pp; English.

XX
CC AA280767 to AA283941 represent tags corresponding to distinct transcripts
CC that are preferentially transcribed in the metastatic breast tumour
CC tissue (i.e. are upregulated in metastatic breast tumour cells). AA283942
CC to AA286677 represent tags corresponding to distinct transcripts that are
CC preferentially transcribed in the primary or non-metastatic breast tumour
CC tissue (i.e. are downregulated in metastatic breast tumour cells). These
CC transcripts can be used for diagnosis, prognosis, monitoring and
CC treatment of breast cancer, particularly where metastatic. Diagnosis is
CC by standard immunoassays or hybridisation/amplification reactions.
CC Compounds that modulate expression of the transcripts are potentially
CC useful for treatment of (metastatic) breast cancer, while promoters from
CC the transcripts are used to direct expression, in selected cell types, of
CC e.g. therapeutic genes (also ribozymes or antisense sequences).
CC particularly an antigen encoding sequence for use in gene or cell-based
CC vaccines. Polypeptides encoded by the transcripts are also useful in
CC vaccines; for diagnosing breast cancer and for raising specific
CC antibodies (Ab). Ab are used to detect the polypeptides or as therapeutic
CC agents. Host cells that produce the polypeptides can be used to expand
CC and isolate populations of educated, antigen-specific immune effector
CC cells, e.g. cytotoxic T lymphocytes, and these used for adoptive
CC immunotherapy
CC
XX

SO Sequence 10 BP; 6 A; 1 C; 3 G; 0 T; 0 U; 0 Other;

Query Match 28.0%; Score 8.4; DB 1; Length 10;

Best Local Similarity 90.0%; Pred. No. 56;

Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1486 AAGAAGCCAG 1495

Db 1 AAGAAGCAG 10

RESULT 87
AA284255
ID AA284255 standard; DNA; 10 BP.

XX AA284255;

DT 07-APR-2000 (first entry)

DE Metastatic breast tumour cell downregulated transcript tag #3489.

XX Human; metastatic breast tumour tissue; breast cancer; tag; primer;

KW non-metastatic breast tumour tissue; gene therapy; anticancer;

KM antimetastatic; vaccine; diagnosis; ss.

XX Homo sapiens.

OS WO965928-A2.

XX


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XX  FR2786202-A1.
PN
XX
XX  26-MAY-2000.
PD
XX
XX  19-NOV-1998; 98FR-00014567.
PF
XX
XX  19-NOV-1998; 98FR-00014567.
PR
XX
XX  (FRRE-) INST FR RECH SCI DEV EN COOP ORSTOM.
PA
XX  WPI; 2000-389570/34.
XX
XX  Identifying species of Leishmania, useful e.g. for diagnosis and
PT selection of treatment, using a limited set of isoenzymes or
PT amplification primers for differentiation.
XX
XX  Claim 2; Page 26; 30pp; French.
XX
XX  The invention relates to a method for identifying Leishmania species by
CC identifying isoenzymes and/or amplicons from, respectively, proteins or
CC DNA extracted from cultured promastigotes derived from an isolate. The
CC method uses a limited set of isoenzymes and/or amplification primers that
CC are discriminatory for characteristics of a broad spectrum of Leishmania
CC species. The isoenzymes used for detection include Glucose Phosphate
CC isomerase (GPI), Mannose Phosphate Isomerase (MPI), Nucleoside Hydrolase
CC substrate deoxyninase (NHD) and Phosphoglucosyltransferase (PGMT). The
CC amplification primers used for PCR identification include primers
CC AA11223-A11232. The method is used to identify specific Leishmania
CC species, either for diagnosis or for selection of appropriate treatments,
CC also in epidemiological studies and for preparation of pharmaceuticals
CC and vaccines
XX
XX  Sequence 10 BP; 3 A; 5 C; 1 G; 1 T; 0 U; 0 Other;
SQ
XX
XX  Query Match 28.0%; Score 8.4; DB 1; Length 10;
XX Best Local Similarity 90.0%; Pred. No. 56;
XX Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1499 TCAGCAGCCA 1508
DB 1 TCACCGAGCA 10

```

RESULT 90
AAH63301/c
ID AAH63301 standard; cDNA; 10 BP.
XX
XX AAH63301;
AC
XX
XX 20-SEP-2001 (first entry)
DT
XX
XX Human colon epithelium specific transcriptome sequence SEQ ID NO: 141.
DE
XX Human; transcriptome; gene expression pattern; cancer; drug screening;
KW cancer diagnosis; cell specific gene expression; ss.
KM
XX Homo sapiens.
OS
XX
XX WO200138577-A2.
PN
XX
XX 31-MAY-2001.
PD
XX
XX 21-NOV-2000; 2000MO-US031922.
PF
XX
XX 24-NOV-1999; 99US-00448480.
PR
XX
XX (UYUO) UNITV JOHNS HOPKINS.
PA
XX Velculescu VE, Vogelstein B, Kinzler KW;
XX WPI; 2001-367706/38.
DR
XX

```

PT New isolated polynucleotides, useful for identifying specific cell type,
PT such as cancer cell, comprises transcriptomes expressed in particular
PT cell types.
XX
XX  Claim 1; Page 42; 94pp; English.
XX
XX  The present invention describes a method of identifying the type of cell
CC in a sample, involving determining which of the sequences AAH633161-
CC AAH64724 is expressed by the cell. The transcriptomes described in the
CC invention are cell-type specific, cancer specific or ubiquitously
CC expressed in humans. They can also be used to screen for drugs, reduce
CC cancer specific gene expression, standardise expression and restore the
CC function of a diseased cell or tissue. The present sequence is one of the
CC transcriptomes described in the exemplification of the invention
XX
XX  Sequence 10 BP; 2 A; 2 C; 2 G; 4 T; 0 U; 0 Other;
SQ
XX
XX  Query Match 28.0%; Score 8.4; DB 1; Length 10;
XX Best Local Similarity 90.0%; Pred. No. 56;
XX Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1496 ACTTCAGCAG 1505
DB 10 ACTTAGCAG 1

```

RESULT 91
AAH63452
ID AAH63452 standard; cDNA; 10 BP.
XX
XX AAH63452;
AC
XX
XX 20-SEP-2001 (first entry)
DT
XX
XX Human ubiquitously expressed transcriptome sequence SEQ ID NO: 292.
DE
XX Human; transcriptome; gene expression pattern; cancer; drug screening;
KW cancer diagnosis; cell specific gene expression; ss.
KM
XX Homo sapiens.
OS
XX
XX WO200138577-A2.
PN
XX
XX 31-MAY-2001.
PD
XX
XX 21-NOV-2000; 2000MO-US031922.
PF
XX
XX 24-NOV-1999; 99US-00448480.
PR
XX
XX (UYUO) UNITV JOHNS HOPKINS.
PA
XX Velculescu VE, Vogelstein B, Kinzler KW;
XX WPI; 2001-367706/38.
DR
XX
XX New isolated polynucleotides, useful for identifying specific cell type,
PT such as cancer cell, comprises transcriptomes expressed in particular
PT cell types.
XX
XX
XX Claim 13; Page 45; 94pp; English.
PS
XX
XX The present invention describes a method of identifying the type of cell
CC in a sample, involving determining which of the sequences AAH63161-
CC AAH64724 is expressed by the cell. The transcriptomes described in the
CC invention are cell-type specific, cancer specific or ubiquitously
CC expressed in humans. They can also be used to screen for drugs, reduce
CC cancer specific gene expression, standardise expression and restore the
CC function of a diseased cell or tissue. The present sequence is one of the
CC transcriptomes described in the exemplification of the invention
XX
XX Sequence 10 BP; 4 A; 4 C; 1 G; 1 T; 0 U; 0 Other;
SQ
XX
XX Query Match 28.0%; Score 8.4; DB 1; Length 10;

Best Local Similarity 90.0%; Pred. No. 56;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 1499 TCAGACGCCA 1508
Db 1 TCAGACGCCA 10

RESULT 92
AAH64237/c
ID AAH64237 standard; cDNA; 10 BP.

AC AAH64237;

DT 20-SEP-2001 (first entry)

DE Human ubiquitously expressed transcriptome sequence SEQ ID NO: 1077.

KW Human; transcriptome; gene expression pattern; cancer; drug screening;
KW cancer diagnosis; cell specific gene expression; ss.

OS Homo sapiens.

PN WO200138577-A2.

PD 31-MAY-2001.

PF 21-NOV-2000; 2000WO-US031922.

PR 24-NOV-1999; 99US-00448480.

PA (UYJO) UNIV JOHNS HOPKINS.

PI Velulescu VE, Vogelstein B, Kinzler KW;

DR WPI; 2001-367706/38.

PT New isolated polynucleotides, useful for identifying specific cell type,
PT such as cancer cell, comprises transcriptomes expressed in particular
PT cell types.

PS Claim 13; Page 63; 94pp; English.

CC The present invention describes a method of identifying the type of cell
CC in a sample, involving determining which of the sequences AAH63161-
CC AAH64724 is expressed by the cell. The transcriptomes described in the
CC invention are cell-type specific; cancer specific or ubiquitously
CC expressed in humans. They can also be used to screen for drugs, reduce
CC cancer specific gene expression, standardise expression and restore the
CC function of a diseased cell or tissue. The present sequence is one of the
CC transcriptomes described in the exemplification of the invention

SO Sequence 10 BP; 3 A; 2 C; 3 G; 2 T; 0 U; 0 Other;

Query Match 28.0%; Score 8.4; DB 1; Length 10;

Best Local Similarity 90.0%; Pred. No. 56;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1490 AGCCAGACTT 1499

Db 10 AGCCAGCTTT 1

RESULT 93
ABA06059/c
ID ABA06059 standard; cDNA; 10 BP.

AC ABA06059;

DT 10-JAN-2002 (first entry)

DE Human normal hepatocyte expression gene cDNA, SEQ ID NO: 36.

KW Human; hepatocyte; gene expression; hepatopathy; ss.
XX Homo sapiens.

PN JP2001211883-A.

PD 07-AUG-2001.

PF 31-JAN-2000; 2000JP-00023170.

PR 31-JAN-2000; 2000JP-00023170.

PA (KAGA-) KAGAKU GIUTTSU SHINKO JIGYODAN.

DR WPI; 2001-629566/73.

DE Human normal hepatocyte expression gene group.

PS Claim 1; Page 6; 26pp; Japanese.

CC The invention relates to a human normal hepatocyte expression gene group
CC comprising 200 genes in the human normal hepatocyte. The cDNA of each
CC gene comprises one of 200 fully defined nucleotide sequences as given in
CC the specification. The gene group and the cDNAs corresponding to each of
CC the genes in the group are useful in the diagnosis and treatment of human
CC hepatopathy. The present sequence is a cDNA corresponding to a gene
CC expressed by normal human hepatocytes

SO Sequence 10 BP; 1 A; 3 C; 3 G; 3 T; 0 U; 0 Other;

Query Match 28.0%; Score 8.4; DB 1; Length 10;

Best Local Similarity 90.0%; Pred. No. 56;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1489 AGCCAGACT 1498

Db 10 AGCCAGACT 1

RESULT 94
AAF38816

ID AAF38816 standard; DNA; 10 BP.

AC AAF38816;

DT 23-MAR-2001 (first entry)

DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:555.

XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KW nor previously assigned open reading frame; nonannotated ORF; SAGE;
KW serial analysis of gene expression; antifungal; tag; identification;
KW linker; PCR primer; ds.

OS Saccharomyces cerevisiae.

PN WO200077214-A2.

PD 21-DEC-2000.

PF 14-JUN-2000; 2000WO-US016223.

PR 16-JUN-1999; 99US-00335032.

PA (UYJO) UNIV JOHNS HOPKINS.

PI Velulescu V, Vogelstein B, Kinzler K;

DR WPI; 2001-061874/07.

PT Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.

XX Example; Page 198; 419pp; English.

PS The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33268 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention
XX

SQ Sequence 10 BP; 6 A; 1 C; 3 G; 0 T; 0 U; 0 Other;

Query Match 28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 56;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1486 AAGAGCCAG 1495
|||
DB 1 AAGAGACAG 10

RESULT 95
AAF39726
ID AAF39726 standard; DNA; 10 BP.

XX AAF39726;

DT 23-MAR-2001 (first entry)

DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:6465.

XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KM nor previously assigned open reading frame; nonannotated ORF; SAGE;
KW serial analysis of gene expression; antifungal; tag; identification;
linker; PCR primer; ds.

XX Saccharomyces cerevisiae.

XX WO200077214-A2.

PN 21-DEC-2000.

PD 14-JUN-2000; 2000WO-US016223.

PF 16-JUN-1999; 99US-00335032.

XX (UYUO) UNIV JOHNS HOPKINS.

XX Velculescu V, Vogelstein B, Kinzler K;

PI WPI; 2001-061874/07.

XX

PT Yeast gene coding sequences comprising NORF genes with serial analysis of
PT gene expression (SAGE) tags, useful for studying, monitoring and
PT affecting phases of the cell cycle.

PS Example; Page 230; 419pp; English.

XX The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33268 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention
XX

SQ Sequence 10 BP; 4 A; 2 C; 4 G; 0 T; 0 U; 0 Other;

Query Match 28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 56;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1487 AGAGCCAGA 1496
|||
DB 1 AGAGCCAGA 10

RESULT 96
AAF40474
ID AAF40474 standard; DNA; 10 BP.

XX AAF40474;

DT 23-MAR-2001 (first entry)

DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:7213.

XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KM nor previously assigned open reading frame; nonannotated ORF; SAGE;
KW serial analysis of gene expression; antifungal; tag; identification;
linker; PCR primer; ds.

XX Saccharomyces cerevisiae.

XX WO200077214-A2.

PN 21-DEC-2000.

PD 14-JUN-2000; 2000WO-US016223.

PF 16-JUN-1999; 99US-00335032.

XX (UYUO) UNIV JOHNS HOPKINS.

XX Velculescu V, Vogelstein B, Kinzler K;

XX

XX WPI; 2001-061874/07.
 XX
 XX
 PT Yeast gene coding sequences comprising NORF genes with serial analysis of
 PT expression (SAGE) tags, useful for studying, monitoring and
 PT affecting phases of the cell cycle.
 PS
 PS Example; Page 257; 419pp; English.
 CC
 CC The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at
 CC least 10% between any two phases of the cell cycle selected from log
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast
 CC cell; and (b) monitoring expression of a NORF gene whose expression
 CC varies as in M1, where a test substance which modifies the expression of
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
 CC identifying human genes which are involved in cell cycle progression
 CC comprising contacting human DNA with a probe which comprises at least 10
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
 CC and (4) a method (M4) for identifying a candidate drug as a member of a
 CC class of drugs having a characteristic effect on gene expression in a
 CC yeast cell comprising contacting a yeast cell with a candidate drug and
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose
 CC expression is affected by the class of drugs. The NORF genes may be used
 CC to study, monitor and affect phases of the cell cycle, the differentially
 CC expressed genes may be used as markers of phases of the cell cycle. The
 CC methods may be used to identify candidate drugs which affect the cell
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
 CC represent SAGE tags used in the exemplification of the present invention.
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
 CC method, in the exemplification of the present invention
 CC
 XX
 SQ Sequence 10 BP; 5 A; 4 C; 1 G; 0 T; 0 U; 0 Other;
 Query Match 28.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 56;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1485 CAAGAAGCCA 1494
 Db 1 CAACAGGCCA 10
 RESULT 97
 AAF40855
 ID AAF40855 standard; DNA; 10 BP.
 AC
 AC AAF40855;
 XX
 DT 23-MAR-2001 (first entry)
 DT
 DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:7594.
 DE
 XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
 KM nor previously assigned open reading frame; nonannotated ORF; SAGE;
 KM serial analysis of gene expression; antifungal; tag; identification;
 KM linker; PCR primer; ds.
 XX
 OS Saccharomyces cerevisiae.
 OS
 PN WO200077214-A2.
 PN
 XX
 XX 21-DEC-2000.
 PD
 XX
 PF 14-JUN-2000; 2000WO-US016223.
 PF
 XX
 XX 16-JUN-1999; 99US-0035032.
 PR
 XX

PA (UYTO) UNIV JOHNS HOPKINS.
 XX
 XX Velculescu V, Vogelstein B, Kinzler K;
 XX
 DR WPI; 2001-061874/07.
 DR
 XX
 XX
 PT Yeast gene coding sequences comprising NORF genes with serial analysis of
 PT expression (SAGE) tags, useful for studying, monitoring and
 PT affecting phases of the cell cycle.
 PS
 PS Example; Page 271; 419pp; English.
 CC
 CC The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at
 CC least 10% between any two phases of the cell cycle selected from log
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast
 CC cell; and (b) monitoring expression of a NORF gene whose expression
 CC varies as in M1, where a test substance which modifies the expression of
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
 CC identifying human genes which are involved in cell cycle progression
 CC comprising contacting human DNA with a probe which comprises at least 10
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
 CC and (4) a method (M4) for identifying a candidate drug as a member of a
 CC class of drugs having a characteristic effect on gene expression in a
 CC yeast cell comprising contacting a yeast cell with a candidate drug and
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose
 CC expression is affected by the class of drugs. The NORF genes may be used
 CC to study, monitor and affect phases of the cell cycle, the differentially
 CC expressed genes may be used as markers of phases of the cell cycle. The
 CC methods may be used to identify candidate drugs which affect the cell
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
 CC represent SAGE tags used in the exemplification of the present invention.
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
 CC method, in the exemplification of the present invention
 CC
 XX
 SQ Sequence 10 BP; 3 A; 3 C; 2 G; 2 T; 0 U; 0 Other;
 Query Match 28.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 56;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1492 CCAGACTTCA 1501
 Db 1 CCAGACTTCA 10
 RESULT 98
 AAF35202
 ID AAF35202 standard; DNA; 10 BP.
 AC
 AC AAF35202;
 XX
 DT 23-MAR-2001 (first entry)
 DT
 DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:1941.
 DE
 XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
 KM nor previously assigned open reading frame; nonannotated ORF; SAGE;
 KM serial analysis of gene expression; antifungal; tag; identification;
 KM linker; PCR primer; ds.
 XX
 OS Saccharomyces cerevisiae.
 OS
 PN WO200077214-A2.
 PN
 XX
 XX 21-DEC-2000.
 PD
 XX
 PF 14-JUN-2000; 2000WO-US016223.
 PF

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XX PR      16-JUN-1999;       99US--00335032.
XX XX
XX PA      (UTJO ) UNIV JOHNS HOPKINS.
XX XX
XX PI      Velculescu V, Vogelstein B, Kinzler K;
XX XX
XX WP1; 2001-061874/07.
XX XX
PS Example; Page 69; 419pp; English.
CC CC
CC The present invention describes an isolated DNA molecule comprising a
CC coding sequence of a yeast gene selected from a group of 745 NORF (not
CC previously assigned open reading frame; or nonannotated ORF) genes
CC comprising a SAGE (serial analysis of gene expression) tag. Also
CC described are: (1) a method (M1) of using NORF genes to affect the cell
CC cycle comprising administering a NORF gene whose expression varies by at
CC least 10% between any two phases of the cell cycle selected from log
CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC antifungal drugs comprising: (a) contacting a test substance with a yeast
CC cell; and (b) monitoring expression of a NORF gene whose expression
CC varies as in M1, where a test substance which modifies the expression of
CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC identifying human genes which are involved in cell cycle progression
CC comprising contacting human DNA with a probe which comprises at least 10
CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC and (4) a method (M4) for identifying a candidate drug as a member of a
CC class of drugs having a characteristic effect on gene expression in a
CC yeast cell comprising contacting a yeast cell with a candidate drug and
CC monitoring expression in the yeast cell of at least 1 NORF gene whose
CC expression is affected by the class of drugs. The NORF genes may be used
CC to study, monitor and affect phases of the cell cycle, the differentially
CC expressed genes may be used as markers of phases of the cell cycle. The
CC methods may be used to identify candidate drugs which affect the cell
CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
CC represent SAGE tags used in the exemplification of the present invention.
CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
CC method, in the exemplification of the present invention
XX XX
SQ Sequence 10 BP; 6 A; 2 C; 2 G; 0 T; 0 U; 0 Other;
XX XX
Query Match          28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 56;
Matches    9; Conservative    0; Mismatches    1; Indels    0; Gaps    0.
QY      1480 ACGACCAAGA 1489
Db            |||||
              1 AAGGACCAAGA 10
RESULT 99
AAFF36577/C
ID   AAF36577 standard; DNA; 10 BP.
XX AC      AAF36577;
XX XX
DT 23-MAR-2001 (first entry)
XX XX
DB Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:3316.
XX XX
KM Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KM not previously assigned open reading frame; nonannotated ORF; SAGE;
KM serial analysis of gene expression; antifungal; tag; identification;
KM linker; PCR primer; ds.
XX XX
OS Saccharomyces cerevisiae.
XX XX
MN MO200077214-A2.
XX XX

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XX	21-DEC-2000.
PF	14-JUN-2000; 2000MCO-USO16223.
PR	16-JUN-1999; 99US-00335032.
PA	(UYUO) UNIV JOHNS HOPKINS.
PI	Velculescu V, Vogelstein B, Kinzler K,
DR	WPI; 2001-061874/07.
PT	Yeast gene coding sequences comprising NORF genes with serial analysis of
PT	gene expression (SAGE) tags, useful for studying, monitoring and
PS	affecting phases of the cell cycle.
XX	Example; Page 118; 419pp; English.
CC	The present invention describes an isolated DNA molecule comprising a
CC	coding sequence of a yeast gene selected from a group of 743 NORF (not
CC	previously assigned open reading frame; or nonannotated ORF) genes
CC	comprising a SAGE (serial analysis of gene expression) tag. Also
CC	described are: (1) a method (M1) of using NORF genes to affect the cell
CC	cycle comprising administering a NORF gene whose expression varies by at
CC	least 10% between any two phases of the cell cycle selected from log
CC	phase, S phase and G2/M; (2) a method (M2) for screening candidate
CC	antifungal drugs comprising: (a) contacting a test substance with a yeast
CC	cell; and (b) monitoring expression of a NORF gene whose expression
CC	varies as in M1, where a test substance which modifies the expression of
CC	the yeast gene is a candidate antifungal drug; (3) a method (M3) for
CC	identifying human genes which are involved in cell cycle progression
CC	comprising contacting human DNA with a probe which comprises at least 10
CC	contiguous nucleotides of a NORF gene whose expression varies as in M1;
CC	and (4) a method (M4) for identifying a candidate drug as a member of a
CC	class of drugs having a characteristic effect on gene expression in a
CC	yeast cell comprising contacting a yeast cell with a candidate drug and
CC	monitoring expression in the yeast cell of at least 1 NORF gene whose
CC	expression is affected by the class of drugs. The NORF genes may be used
CC	to study, monitor and affect phases of the cell cycle, the differentially
CC	expressed genes may be used as markers of phases of the cell cycle. The
CC	methods may be used to identify candidate drugs which affect the cell
CC	cycle and for identification of antifungal drugs. AAF33368 to AAF44064
CC	represent SAGE tags used in the exemplification of the present invention.
CC	AAF33362 to AAF33267 represent linkers and PCR primers used in the SAGE
CC	method, in the exemplification of the present invention
XX	
SQ	Sequence 10 BP; 2 A; 3 C; 3 G; 2 T; 0 U; 0 Other;
	Query Match 28.0%; Score 8.4; DB 1; Length 10;
	Best Local Similarity 90.0%; Pred. No. 56;
	Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY	1497 CTTCAGCAGC 1506
DB	10 CTTGACGAGC 1
RESULT 100	
AAFP6581/c	
ID	AAFP6581 standard; DNA, 10 BP.
XX	
AC	AAFP6581;
XX	
DT	23-MAR-2001 (first entry)
DE	Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:3320.
XX	
KW	Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
KW	not previously assigned open reading frame; nonannotated ORF; SAGE;
KW	serial analysis of gene expression; antifungal; tag; identification;
KW	linker; PCR primer; ds.
XX	
OS	Saccharomyces cerevisiae.

XX XX WO200077214-A2.
 XX XX 21-DEC-2000.
 XX XX 14-JUN-2000; 2000WO-US016223.
 XX XX 16-JUN-1999; 99US-00335032.
 XX XX (UYJO) UNIV JOHNS HOPKINS.
 XX XX Velculescu V, Vogelstein B, Kinzler K;
 XX XX WPI; 2001-061874/07.
 XX XX
 PT Yeast gene coding sequences comprising NORF genes with serial analysis of
 PT gene expression (SAGE) tags, useful for studying, monitoring and
 PT affecting phases of the cell cycle.
 XX XX
 PS Example; Page 118; 419pp; English.
 XX XX
 CC The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at
 CC least 10⁸ between any two phases of the cell cycle selected from log
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast
 CC cell; and (b) monitoring expression of a NORF gene whose expression
 CC varies as in M1, where a test substance which modifies the expression of
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
 CC identifying human genes which are involved in cell cycle progression
 CC comprising contacting human DNA with a probe which comprises at least 10
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
 CC and (4) a method (M4) for identifying a candidate drug as a member of a
 CC class of drugs having a characteristic effect on gene expression in a
 CC yeast cell comprising contacting a yeast cell with a candidate drug and
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose
 CC expression is affected by the class of drugs. The NORF genes may be used
 CC to study, monitor and affect phases of the cell cycle, the differentially
 CC expressed genes may be used as markers of phases of the cell cycle. The
 CC methods may be used to identify candidate drugs which affect the cell
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
 CC represent SAGE tags used in the exemplification of the present invention.
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
 CC method, in the exemplification of the present invention
 XX XX
 SQ Sequence 10 BP; 0 A; 1 C; 3 G; 6 T; 0 U; 0 Other;
 XX XX
 QY Query Match 28.0%; Score 8.4; DB 1; Length 10;
 Db Best Local Similarity .90.0%; Pred. No. 56;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 1483 ACCAAGAAGC 1492
 10 ACCAAAAAGC 1
 RESULT 101
 AAF38900
 ID AAF38900 standard; DNA; 10 BP.
 XX XX
 AC AAF38900;
 XX XX
 DT 23-MAR-2001 (first entry)
 XX XX
 DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:5639.
 XX XX
 KM Yeast; Saccharomyces cerevisiae; Characterisation; cell cycle; NORF;
 KM not previously assigned open reading frame; nonannotated ORF; SAGE;
 KM serial analysis of gene expression; antifungal; tag; identification;

KW linker; PCR primer; ds.
 XX XX Saccharomyces cerevisiae.
 XX XX WO200077214-A2.
 XX XX 21-DEC-2000.
 XX XX 14-JUN-2000; 2000WO-US016223.
 XX XX 16-JUN-1999; 99US-00335032.
 XX XX (UYJO) UNIV JOHNS HOPKINS.
 XX XX Velculescu V, Vogelstein B, Kinzler K;
 XX XX WPI; 2001-061874/07.
 XX XX
 DR WPI; 2001-061874/07.
 XX XX
 PT Yeast gene coding sequences comprising NORF genes with serial analysis of
 PT gene expression (SAGE) tags, useful for studying, monitoring and
 PT affecting phases of the cell cycle.
 XX XX
 PS Example; Page 201; 419pp; English.
 XX XX
 CC The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at
 CC least 10⁸ between any two phases of the cell cycle selected from log
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast
 CC cell; and (b) monitoring expression of a NORF gene whose expression
 CC varies as in M1, where a test substance which modifies the expression of
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
 CC identifying human genes which are involved in cell cycle progression
 CC comprising contacting human DNA with a probe which comprises at least 10
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
 CC and (4) a method (M4) for identifying a candidate drug as a member of a
 CC class of drugs having a characteristic effect on gene expression in a
 CC yeast cell comprising contacting a yeast cell with a candidate drug and
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose
 CC expression is affected by the class of drugs. The NORF genes may be used
 CC to study, monitor and affect phases of the cell cycle, the differentially
 CC expressed genes may be used as markers of phases of the cell cycle. The
 CC methods may be used to identify candidate drugs which affect the cell
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
 CC represent SAGE tags used in the exemplification of the present invention.
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
 CC method, in the exemplification of the present invention
 XX XX
 SQ Sequence 10 BP; 4 A; 2 C; 4 G; 0 T; 0 U; 0 Other;
 XX XX
 QY Query Match 28.0%; Score 8.4; DB 1; Length 10;
 Db Best Local Similarity .90.0%; Pred. No. 56;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 1486 AAGAGCCAG 1495
 1 AAGAGCCAG 10
 RESULT 102
 AAF33314
 ID AAF33314 standard; DNA; 10 BP.
 XX XX
 AC AAF33314;
 XX XX
 DT 23-MAR-2001 (first entry)
 XX XX
 DE Yeast putative coding sequence SAGE tag oligonucleotide SEQ ID NO:53.
 XX XX

KM Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
 KM nor previously assigned open reading frame; nonannotated ORF; SAGE;
 KM serial analysis of gene expression; antifungal; tag; identification;
 KM linker; PCR primer; da.
 OS Saccharomyces cerevisiae.
 XX MO200077214-A2.
 XX 21-DEC-2000.
 XX 14-JUN-2000; 2000WO-US016223.
 XX 16-JUN-1999; 99US-00335032.
 XX (UYJO) UNIV JOHNS HOPKINS.
 XX Velculescu V, Vogelstein B, Kinzler K;
 XX MPI, 2001-061874/07.
 XX Yeast gene coding sequences comprising NORF genes with serial analysis of
 PT gene expression (SAGE) tags, useful for studying, monitoring and
 PT affecting phases of the cell cycle.
 XX Example; Page 22; 419pp; English.
 XX The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at
 CC least 10% between any two phases of the cell cycle selected from log
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast
 CC cell; and (b) monitoring expression of a NORF gene whose expression
 CC varies as in M1, where a test substance which modifies the expression of
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
 CC identifying human genes which are involved in cell cycle progression
 CC comprising contacting human DNA with a probe which comprises at least 10
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
 CC and (4) a method (M4) for identifying a candidate drug as a member of a
 CC class of drugs having a characteristic effect on gene expression in a
 CC yeast cell comprising contacting a yeast cell with a candidate drug and
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose
 CC expression is affected by the class of drugs. The NORF genes may be used
 CC to study, monitor and affect phases of the cell cycle, the differentially
 CC expressed genes may be used as markers of phases of the cell cycle. The
 CC methods may be used to identify candidate drugs which affect the cell
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
 CC represent SAGE tags used in the exemplification of the present invention.
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
 CC method, in the exemplification of the present invention
 XX
 SQ Sequence 10 BP; 4 A; 3 C; 3 G; 0 T; 0 U; 0 Other;
 Query Match 28.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 56;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 OY 1480 ACGACCAAGA 1489
 DB 1 ACGGCCAAGA 10
 RESULT 103
 AAF34250
 ID AAF34250 standard; DNA; 10 BP.
 AC AAF34250;
 XX 23-MAR-2001 (first entry)

XX Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:989.
 DE
 XX Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
 KM nor previously assigned open reading frame; nonannotated ORF; SAGE;
 KM serial analysis of gene expression; antifungal; tag; identification;
 KM linker; PCR primer; da.
 OS Saccharomyces cerevisiae.
 XX MO200077214-A2.
 XX 21-DEC-2000.
 XX 14-JUN-2000; 2000WO-US016223.
 XX 16-JUN-1999; 99US-00335032.
 XX (UYJO) UNIV JOHNS HOPKINS.
 XX Velculescu V, Vogelstein B, Kinzler K;
 XX MPI, 2001-061874/07.
 XX Yeast gene coding sequences comprising NORF genes with serial analysis of
 PT gene expression (SAGE) tags, useful for studying, monitoring and
 PT affecting phases of the cell cycle.
 XX Example; Page 35; 419pp; English.
 XX The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at
 CC least 10% between any two phases of the cell cycle selected from log
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast
 CC cell; and (b) monitoring expression of a NORF gene whose expression
 CC varies as in M1, where a test substance which modifies the expression of
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
 CC identifying human genes which are involved in cell cycle progression
 CC comprising contacting human DNA with a probe which comprises at least 10
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
 CC and (4) a method (M4) for identifying a candidate drug as a member of a
 CC class of drugs having a characteristic effect on gene expression in a
 CC yeast cell comprising contacting a yeast cell with a candidate drug and
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose
 CC expression is affected by the class of drugs. The NORF genes may be used
 CC to study, monitor and affect phases of the cell cycle, the differentially
 CC expressed genes may be used as markers of phases of the cell cycle. The
 CC methods may be used to identify candidate drugs which affect the cell
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
 CC represent SAGE tags used in the exemplification of the present invention.
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
 CC method, in the exemplification of the present invention
 XX
 SQ Sequence 10 BP; 4 A; 3 C; 3 G; 0 T; 0 U; 0 Other;
 Query Match 28.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 56;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 OY 1480 ACGACCAAGA 1489
 DB 1 ACGGCCAAGA 10
 RESULT 104
 AAF35602/c
 ID AAF35602 standard; DNA; 10 BP.
 XX

AA35602;
23-MAR-2001 (first entry)
Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:2341.
Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
nor previously assigned open reading frame; nonannotated ORF; SAGE;
serial analysis of gene expression; antifungal; tag; identification;
linker; PCR primer; ds.
Saccharomyces cerevisiae.
WO200077214-A2.
21-DEC-2000.
14-JUN-2000; 2000WO-US016223.
16-JUN-1999; 99US-00335032.
(UYJO) UNIV JOHNS HOPKINS.
Velculescu V, Vogelstein B, Kinzler K;
WPI; 2001-061874/07.
Yeast gene coding sequences comprising NORF genes with serial analysis of
gene expression (SAGE) tags, useful for studying, monitoring and
affecting phases of the cell cycle.
Example; Page 83; 419pp; English.
The present invention describes an isolated DNA molecule comprising a
coding sequence of a yeast gene selected from a group of 745 NORF (not
previously assigned open reading frame; or nonannotated ORF) genes
comprising a SAGE (serial analysis of gene expression) tag. Also
described are: (1) a method (M1) of using NORF genes to affect the cell
cycle comprising administering a NORF gene whose expression varies by at
least 10% between any two phases of the cell cycle selected from log
phase, S phase and G2/M; (2) a method (M2) for screening candidate
antifungal drugs comprising: (a) contacting a test substance with a yeast
cell; and (b) monitoring expression of a NORF gene whose expression
varies as in M1, where a test substance which modifies the expression of
the yeast gene is a candidate antifungal drug; (3) a method (M3) for
identifying human genes which are involved in cell cycle progression
comprising contacting human DNA with a probe which comprises at least 10
contiguous nucleotides of a NORF gene whose expression varies as in M1;
and (4) a method (M4) for identifying a candidate drug as a member of a
class of drugs having a characteristic effect on gene expression in a
yeast cell comprising contacting a yeast cell with a candidate drug and
monitoring expression in the yeast cell of at least 1 NORF gene whose
expression is affected by the class of drugs. The NORF genes may be used
to study, monitor and affect phases of the cell cycle, the differentially
expressed genes may be used as markers of phases of the cell cycle. The
methods may be used to identify candidate drugs which affect the cell
cycle and for identification of antifungal drugs. AAF33268 to AAF44064
represent SAGE tags used in the exemplification of the present invention.
AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
method, in the exemplification of the present invention
Sequence 10 BP; 2 A; 3 C; 3 G; 2 T; 0 U; 0 Other;
Query Match 28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 56;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1497 CTTGAGCAGC 1506
Db 10 CTTGAGCAGC 1
RESULT 105

AA38822
ID AAF38822 standard; DNA; 10 BP.
AAF38822;
23-MAR-2001 (first entry)
Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:5561.
Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
nor previously assigned open reading frame; nonannotated ORF; SAGE;
serial analysis of gene expression; antifungal; tag; identification;
linker; PCR primer; ds.
Saccharomyces cerevisiae.
WO200077214-A2.
21-DEC-2000.
14-JUN-2000; 2000WO-US016223.
16-JUN-1999; 99US-00335032.
(UYJO) UNIV JOHNS HOPKINS.
Velculescu V, Vogelstein B, Kinzler K;
WPI; 2001-061874/07.
Yeast gene coding sequences comprising NORF genes with serial analysis of
gene expression (SAGE) tags, useful for studying, monitoring and
affecting phases of the cell cycle.
Example; Page 198; 419pp; English.
The present invention describes an isolated DNA molecule comprising a
coding sequence of a yeast gene selected from a group of 745 NORF (not
previously assigned open reading frame; or nonannotated ORF) genes
comprising a SAGE (serial analysis of gene expression) tag. Also
described are: (1) a method (M1) of using NORF genes to affect the cell
cycle comprising administering a NORF gene whose expression varies by at
least 10% between any two phases of the cell cycle selected from log
phase, S phase and G2/M; (2) a method (M2) for screening candidate
antifungal drugs comprising: (a) contacting a test substance with a yeast
cell; and (b) monitoring expression of a NORF gene whose expression
varies as in M1, where a test substance which modifies the expression of
the yeast gene is a candidate antifungal drug; (3) a method (M3) for
identifying human genes which are involved in cell cycle progression
comprising contacting human DNA with a probe which comprises at least 10
contiguous nucleotides of a NORF gene whose expression varies as in M1;
and (4) a method (M4) for identifying a candidate drug as a member of a
class of drugs having a characteristic effect on gene expression in a
yeast cell comprising contacting a yeast cell with a candidate drug and
monitoring expression in the yeast cell of at least 1 NORF gene whose
expression is affected by the class of drugs. The NORF genes may be used
to study, monitor and affect phases of the cell cycle, the differentially
expressed genes may be used as markers of phases of the cell cycle. The
methods may be used to identify candidate drugs which affect the cell
cycle and for identification of antifungal drugs. AAF33268 to AAF44064
represent SAGE tags used in the exemplification of the present invention.
AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
method, in the exemplification of the present invention
Sequence 10 BP; 4 A; 2 C; 4 G; 0 T; 0 U; 0 Other;
Query Match 28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 56;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1486 AAGAGCCAG 1495
Db 1 AAGAGCCAG 10

RESULT 106
 ID AAF41495/C
 AC AAF41495; standard; DNA; 10 BP.
 XX
 DT 23-MAR-2001 (first entry)
 XX
 DE Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO: 8234.
 XX
 KM Yeast; *Saccharomyces cerevisiae*; characterisation; cell cycle; NORF;
 KM not previously assigned open reading frame; nonannotated ORF; SAGE;
 KM serial analysis of gene expression; antifungal; tag; identification;
 KM linker; PCR primer; ds.
 XX
 OS *Saccharomyces cerevisiae*.
 XX
 PN WO200077214-A2.
 PD 21-DEC-2000.
 PF 14-JUN-2000; 2000WO-US016223.
 XX
 PR 16-JUN-1999; 99US-00335032.
 XX
 PA (UYJO) UNIV JOHNS HOPKINS.
 PI Velculescu V, Vogelstein B, Kinzler K;
 DR WPI; 2001-061874/07.
 XX
 PT Yeast gene coding sequences comprising NORF genes with serial analysis of
 PT gene expression (SAGE) tags, useful for studying, monitoring and
 PT affecting phases of the cell cycle.
 XX
 PS Example; Page 294; 419pp; English.
 XX
 CC The present invention describes an isolated DNA molecule comprising a
 CC coding sequence of a yeast gene selected from a group of 745 NORF (not
 CC previously assigned open reading frame; or nonannotated ORF) genes
 CC comprising a SAGE (serial analysis of gene expression) tag. Also
 CC described are: (1) a method (M1) of using NORF genes to affect the cell
 CC cycle comprising administering a NORF gene whose expression varies by at
 CC least 10% between any two phases of the cell cycle selected from log
 CC phase, S phase and G2/M; (2) a method (M2) for screening candidate
 CC antifungal drugs comprising: (a) contacting a test substance with a yeast
 CC cell; and (b) monitoring expression of a NORF gene whose expression
 CC varies as in M1, where a test substance which modifies the expression of
 CC the yeast gene is a candidate antifungal drug; (3) a method (M3) for
 CC identifying human genes which are involved in cell cycle progression
 CC comprising contacting human DNA with a probe which comprises at least 10
 CC contiguous nucleotides of a NORF gene whose expression varies as in M1;
 CC and (4) a method (M4) for identifying a candidate drug as a member of a
 CC class of drugs having a characteristic effect on gene expression in a
 CC yeast cell comprising contacting a yeast cell with a candidate drug and
 CC monitoring expression in the yeast cell of at least 1 NORF gene whose
 CC expression is affected by the class of drugs. The NORF genes may be used
 CC to study, monitor and affect phases of the cell cycle, the differentially
 CC expressed genes may be used as markers of phases of the cell cycle. The
 CC methods may be used to identify candidate drugs which affect the cell
 CC cycle and for identification of antifungal drugs. AAF33268 to AAF44064
 CC represent SAGE tags used in the exemplification of the present invention.
 CC AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
 CC method, in the exemplification of the present invention
 XX
 SQ Sequence 10 BP; 0 A; 4 C; 2 G; 4 T; 0 U; 0 Other;
 XX
 Query Match 28.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 56;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0

```

01 1486 AAGAAGCCAG 1495
02 ||| ||||| |||
03 10 AAGAAGCCAG 1
04
05 RESULT 107
06 AAF34426
07 AAF34426 standard; DNA; 10 BP.
08
09 AAF34426;
10
11 23-MAR-2001 (first entry)
12
13 Yeast NORF gene SAGE tag oligonucleotide SEQ ID NO:1155.
14
15 Yeast; Saccharomyces cerevisiae; characterisation; cell cycle; NORF;
16 nor previously assigned open reading frame; nonannotated ORF; SAGE;
17 serial analysis of gene expression; antifungal; tag; identification;
18 linker; PCR primer; ds.
19
20 Saccharomyces cerevisiae.
21
22 MO200077214-A2.
23
24 21-DEC-2000.
25
26 14-JUN-2000; 2000WO-US016223.
27
28 16-JUN-1999; 99US-00335032.
29
30 (UYJO ) UNIV JOHNS HOPKINS.
31
32 Velculescu V, Vogelstein B, Kinzler K;
33 WPI; 2001-061874/07.
34
35 Yeast gene coding sequences comprising NORF genes with serial analysis of
36 gene expression (SAGE) tags, useful for studying, monitoring and
37 affecting phases of the cell cycle.
38
39 Example; Page 41; 41pp; English.
40
41 The present invention describes an isolated DNA molecule comprising a
42 coding sequence of a yeast gene selected from a group of 745 NORF (not
43 previously assigned open reading frame; or nonannotated ORF) genes
44 comprising a SAGE (serial analysis of gene expression) tag. Also
45 described are: (1) a method (M1) of using NORF genes to affect the cell
46 cycle comprising administering a NORF gene whose expression varies by at
47 least 10% between any two phases of the cell cycle selected from log
48 phase, S phase and G2/M; (2) a method (M2) for screening candidate
49 antifungal drugs comprising: (a) contacting a test substance with a yeast
50 cell; and (b) monitoring expression of a NORF gene whose expression
51 varies as in M1, where a test substance which modifies the expression of
52 the yeast gene is a candidate antifungal drug; (3) a method (M3) for
53 identifying human genes which are involved in cell cycle progression
54 comprising contacting human DNA with a probe which comprises at least 10
55 contiguous nucleotides of a NORF gene whose expression varies as in M1;
56 and (4) a method (M4) for identifying a candidate drug as a member of a
57 class of drugs having a characteristic effect on gene expression in a
58 yeast cell comprising contacting a yeast cell with a candidate drug and
59 monitoring expression in the yeast cell of at least 1 NORF gene whose
60 expression is affected by the class of drugs. The NORF genes may be used
61 to study, monitor and affect phases of the cell cycle, the differentially
62 expressed genes may be used as markers of phases of the cell cycle. The
63 methods may be used to identify candidate drugs which affect the cell
64 cycle and for identification of antifungal drugs. AAF33268 to AAF44064
65 represent SAGE tags used in the exemplification of the present invention.
66 AAF33262 to AAF33267 represent linkers and PCR primers used in the SAGE
67 method, in the exemplification of the present invention
68
69 Sequence 10 BP; 5 A; 2 C; 2 G; 1 T; 0 U; 0 Other;
70
71 Query Match 28.0%; Score8.4; DB 1; Length 10;

```


ID ABL52200 standard; DNA; 10 BP.
 AC ABL52200;
 XX
 XX
 DT 12-JUL-2002 (first entry)
 XX
 DE Human PER1 preferred oligonucleotide primer SEQ ID NO:125.
 XX
 XX
 KM Human; period (Drosophila) homologue 1; PER1; polymorphic variant;
 KM polymorphic site; genotyping; haplotyping; circadian rhythm regulation;
 KM single nucleotide polymorphism; SNP; gene; primer; ss.
 XX
 OS Homo sapiens.
 XX
 XX WO200222650-A2.
 XX
 PD 21-MAR-2002.
 XX
 PF 13-SEP-2001; 2001WO-US028780.
 XX
 PR 13-SEP-2000; 2000US-0232468P.
 XX
 PA (GENA-) GENAISSANCE PHARM INC.
 XX
 PI Duda A, Kijem SE, Koshy B;
 XX
 DR WPI; 2002-393941/42.
 XX
 PT Novel isolated human period Drosophila homolog 1 polynucleotide, useful
 PT for therapeutic purposes, for studying the expression and function of the
 PT polynucleotide, and for expressing the homolog.
 XX
 PS Claim 19; Page 16; 162pp; English.
 XX
 CC The present invention describes an isolated human period (Drosophila)
 CC homologue 1, (PER1) polynucleotide (1) comprising a sequence which is a
 CC polymorphic variant for a reference sequence (ABL52077) for the PER1 gene
 CC or its fragment, or a polymorphic variant of a reference sequence
 CC (ABL52078) for a PER1 cDNA or its fragment. The present invention also
 CC describes methods for genotyping and haplotyping the PER1 gene of an
 CC individual. (1) is useful in studying the expression and function of
 CC PER1, and in expressing PER1 protein for use in screening for candidate
 CC drugs to treat diseases related to PER1 activity. (1) is useful for
 CC therapeutic purposes. A recombinant non-human organism transformed or
 CC transfected with (1) can be used for studying expression of the PER1
 CC isogenes in vivo, for in vivo screening and testing of drugs targeted
 CC against PER1 protein, and for testing the efficacy of therapeutic agents
 CC and compounds for disorders associated with circadian rhythm regulation.
 CC The present sequence represents a preferred oligonucleotide primer for
 CC human PER1, which is used in the exemplification of the present invention
 CC
 XX
 SQ Sequence 10 BP; 2 A; 4 C; 3 G; 1 T; 0 U; 0 Other;
 Query Match 28.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 56;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1497 CTTGACGACG 1506
 DB 1 CGTCACGACG 10
 AC
 AC ABL81399;
 XX
 XX
 DT 13-AUG-2002 (first entry)
 XX
 DE SCYA21 gene primer extension oligonucleotide #3.
 XX
 XX Small inducible cytokine subfamily A (Cys-Cys) member 21; SCYA21;

KM polymorphism; haplotype; immunological disorder; gene expression;
 KM drug development; immunomodulator; primer extension; oligonucleotide; ss.
 XX
 XX
 OS Homo sapiens.
 XX
 XX WO200232930-A2.
 XX
 PD 25-APR-2002.
 XX
 PF 09-OCT-2001; 2001WO-US046141.
 XX
 PR 19-OCT-2000; 2000US-0241622P.
 XX
 PA (GENA-) GENAISSANCE PHARM INC.
 XX
 PI Bentivegna SC, Russo DP;
 XX
 DR WPI; 2002-435528/46.
 XX
 PT New genetic variants comprising haplotypes of the small inducible
 PT cytokine subfamily A, member 21 (SCYA21) gene, useful in improving the
 PT efficiency of screening for drugs for treating immunological disorders or
 PT for targeting SCYA21.
 XX
 PS Claim 16; Page 13; 56pp; English.
 XX
 CC The invention describes an isolated polynucleotide, which comprises genes
 CC and haplotypes of the small inducible cytokine subfamily A (Cys-Cys),
 CC member 21 (SCYA21) gene. The polynucleotide comprises polymorphic sites
 CC referred to as PSI-5 to designate the order in which they are located in
 CC the gene. The polymorphisms and haplotypes of SCYA21 gene are useful for
 CC validating whether SCYA21 is a suitable target for drugs to treat
 CC immunological disorders and disorders associated with its abnormal
 CC expression or function, screening for such drugs and reducing bias in
 CC clinical trials of such drugs. Haplotype information would be useful in
 CC improving the efficiency and output of several steps in the drug
 CC discovery and development process, including target validation,
 CC identifying lead compounds and early phase clinical trials. The methods
 CC are useful in screening for compounds targeting SCYA21 to treat a
 CC specific condition or disease predicted to be associated with SCYA21
 CC activity, e.g. immunological disorders. This sequence represents a primer
 CC extension oligonucleotide used to identify polymorphic sites in the
 CC SCYA21 gene
 CC
 XX
 SQ Sequence 10 BP; 0 A; 4 C; 2 G; 4 T; 0 U; 0 Other;
 Query Match 28.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 56;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1487 AGAAGCCAGA 1496
 DB 10 AGAGGCCAGA 1
 AC
 AC ABL96063;
 XX
 XX
 DT 24-SEP-2002 (first entry)
 XX
 DE Human LIPB gene polymorphism detection oligonucleotide primer #38.
 XX
 XX Human; lipase; hormone sensitive; LIPB; isogene; obesity; male sterility;
 KM polymorphism; primer; ss.
 XX
 OS Homo sapiens.
 XX
 PN WO200240502-A2.
 XX
 PD 23-MAY-2002.

XX 16-NOV-2001; 2001WO-US043518.
PF 16-NOV-2000; 2000US-0249302P.
XX
XX
XX (GENA-) GENAISSANCE PHARM INC.
PA Anastasio AE, Bentivegna SC, Chew A, Koshy B, Rounds E;
XX WPI; 2002-519369/55.
XX
XX Novel genetic variants of lipase, Hormone-Sensitive lipase, useful for
PT improving efficiency and reliability in drug development for treating
XX diseases associated with LIPE activity, e.g. obesity and male sterility.
XX
XX Claim 17; Page 16; 142pp; English.
XX
XX The present invention relates to a new polynucleotide comprising a
CC nucleotide sequence which comprises lipase, hormone sensitive (LIPE)
CC isogenes. The invention is useful in screening for drugs targeting LIPE
CC isogenes that are useful for treating obesity and male sterility. The
CC methods of the invention are useful for improving the efficiency and
CC reliability of several steps in the discovery and development of drugs
CC for treating diseases associated with LIPE activity. The polynucleotide
CC is useful in studying the expression and function of LIPE, and in
CC expressing LIPE protein for use in screening for candidate drugs to treat
CC diseases related to LIPE activity. It is also useful in studying the
CC effect of the variation on the biological activity of LIPE as well as on
CC the binding affinity of candidate drugs targeting LIPE for the treatment
CC of obesity and male sterility. The invention is useful for studying the
CC expression of LIPE isogenes in vivo, for in vivo screening and testing of
CC drugs targeted against LIPE protein, and for testing the efficacy of
CC therapeutic agents and compounds for treating obesity and male sterility
CC in a biological system. The present nucleic acid sequence represents one
CC of a collection (ABK96026-ABK96083) of oligonucleotide primers that were
CC used in the invention to detect polymorphisms in the human LIPE gene
XX
XX Sequence 10 BP; 2 A; 2 C; 4 G; 2 T; 0 U; 0 Other;
SQ
Query Match 28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 56;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1494 AGACTTCAGC 1503
Db 10 AGACTTCGCG 1
RESULT 113
AAD25204
ID AAD25204 standard; DNA; 10 BP.
XX
XX AAD25204;
XX
XX 12-MAR-2002 (first entry)
DT
XX
XX Human homeo box D3 (HOXD3) gene polymorphism detecting primer #3.
DE
XX Human; homeo box D3; HOXD3; polymorphism; developmental disorder;
XX haplotype; HT; allele-specific oligonucleotide; ASO; tumour; therapy;
XX drug screening; cytostatic; primer; ss.
XX
XX Homo sapiens.
OS
XX
XX WO200190127-A2.
PN
XX
XX 29-NOV-2001.
PD
XX
XX 24-MAY-2001; 2001WO-US016982.
PF
XX
XX 25-MAY-2000; 2000US-0207076P.
PR
XX
XX (GENA-) GENAISSANCE PHARM INC.
PA

XX Duda A, Kazemi A, Koshy B, Kumar AM;
PI WPI; 2002-075363/10.
XX
XX
XX New genetic variants of Homeo Box D3 for studying expression and function
PT of the protein, and for screening drugs to treat diseases e.g.
XX developmental disorders and tumors.
XX
XX Claim 18; Page 13; 66pp; English.
XX
XX The invention relates to genetic variants of the homeo box D3 (HOXD3)
CC gene. HOXD3 gene includes 9 polymorphic sites PS1-PS9. Haplotypes (HTS)
CC or haplotype pairs (HP) for PS1-PS9 in the HOXD3 gene are useful for
CC improving the efficiency and reliability of several steps in the
CC discovery and development of drugs for treating diseases associated with
CC HOXD3 activity, e.g., developmental disorders and tumors. HOXD3 isogene
CC is useful in studying the expression and function of HOXD3 and in
CC expressing HOXD3 protein for use in screening for candidate drugs to
CC treat diseases related to HOXD3 activity and in studying the effect of
CC the variation on the biological activity of HOXD3 as well as on the
CC binding affinity of candidate drugs targeting HOXD3 for the treatment of
CC developmental disorders and tumors. An antibody against HOXD3 is useful
CC in a variety of diagnostic and prognostic formats and therapeutic
CC methods. A recombinant non-human organism is useful in studying
CC expression of the HOXD3 isogenes in vivo. Allele-specific
CC oligonucleotides (ASO) are useful as probes and primers and for assaying
CC a polymorphism in the target region. The present sequence is a primer
CC used for detecting human HOXD3 gene polymorphisms
XX
XX Sequence 10 BP; 4 A; 3 C; 2 G; 1 T; 0 U; 0 Other;
SQ
Query Match 28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 56;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1499 TCAGCAGCCA 1508
Db 1 TCAGCAGACA 10
RESULT 114
ABV84823/C
ID ABV84823 standard; cDNA; 10 BP.
XX
XX ABV84823;
XX
XX 12-DEC-2002 (first entry)
DT
XX
XX Human haemopexin SAGE tag #633.
DE
XX SAGE tag; serial analysis of gene expression; human; chronic hepatitis C;
XX CH; liver tissue; hepatocellular carcinoma; cancer; tumour; HCC;
XX expression pattern; ss.
XX
XX Homo sapiens.
OS
XX
XX JP2002209591-A.
PN
XX
XX 30-JUL-2002.
PD
XX
XX 19-JAN-2001; 2001JP-00012328.
PF
XX
XX 19-JAN-2001; 2001JP-00012328.
PR
XX
XX (KAGA-) KAGAKU GIUTSU SHINKO JIGYODAN.
PA
XX WPI; 2002-631294/68.
DR
XX
XX Human chronic hepatitis C tissue expression exasperating gene group
PT comprises 100 high-ranking genes.
XX
XX Claim 55; Page 28; 139pp; Japanese.
PS

XX The invention relates to SAGE (serial analysis of gene expression) tags
CC representing groups of genes which are differentially expressed in human
CC chronic hepatitis C (CH) liver tissue or hepatitis C-induced
CC hepatocellular carcinoma (HCC) compared with normal human liver tissue.
CC The SAGE tags of this invention consist of a sequence of 10 nucleotides
CC located downstream of the 5'-CATG-3' sequence motif lying nearest to the
CC polyA region of cDNAs derived from a variety of genes. These tags serve
CC to uniquely identify each transcript and can thus be used to analyse the
CC pattern of gene expression in particular cell types. The invention also
CC relates to proteins encoded by the genes expressed in chronic hepatitis C
CC liver tissue or HCC, antibodies against these proteins, and inhibitors of
CC the expression of groups of genes that are overexpressed in chronic
CC hepatitis C liver tissue or HCC. Groups of genes differentially expressed
CC in chronic hepatitis C tissue or HCC may be used for the diagnosis and
CC treatment of these diseases. Such genes, inhibitors of their expression
CC or activity, and antibodies against the gene products may be used in the
CC development of drugs to treat chronic hepatitis C and/or HCC. Sequences
CC ABV84791-ABV84890 are SAGE tags representing 100 genes which are highly
CC expressed in chronic hepatitis C liver tissue
XX

SO Sequence 10 BP; 1 A; 3 C; 3 G; 3 T; 0 U; 0 Other;

Query Match 28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 56;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1495 AGCCGAGCT 1498
DB 10 AGCCGAGCT 1

RESULT 115

ABKS4423/C
ID ABKS4423 standard; DNA; 10 BP.

XX ABKS4423;

DT 18-JUN-2002 (first entry)

DE Human ISL1 gene ASO primer extension sequence #18.

XX Human; ss; primer; ISL1; islet-1; chromosome 5q; motor neuron defect;
KW diabetes; transcription factor; LIM; homeodomain; antidiabetic; PCR;
KW gene therapy; primer extension.

XX Homo sapiens.

OS

PN WO200212498-A2.

PD 14-FEB-2002.

PF 06-AUG-2001; 2001WO-US024664.

PR 04-AUG-2000; 2000US-0223535P.

PA (GENA-) GENAISSANCE PHARM INC.

PI Klien SE, Koshy B, Tanguay DA;

DR WPI; 2002-280693/32.

XX Novel isolated polynucleotide which is a polymorphic variant of ISL1
PT transcription factor, LIM/homeodomain, (islet-1) (ISL1) used for
PT expressing ISL1 protein isoform and for screening drug candidates to
PT treat diabetes.

PS Claim 18; Page 14; 90pp; English.

XX The invention relates to an isolated polynucleotide sequence which
CC comprises ISL1 transcription factor (islet-1, of the LIM/homeodomain
CC family), isogene and the polymorphic variants of the coding region
CC (cDNA). Also included are a recombinant non-human organism expressing

CC ISL1, haplotyping/genotyping an individual by determining which
CC polymorphism is present in one or both copies of the ISL1 gene, for one
CC or more polymorphic sites, identifying an association between a trait and
CC a haplotype pair, an isolated oligonucleotide for detecting a
CC polymorphism in the ISL1 gene, polymorphic variant of the ISL1 protein,
CC an anti-ISL1 monoclonal antibody and a computer system for storing and
CC analysing polymorphism data. The ISL1 polymorphic variant polypeptide is
CC useful for screening drugs which involves contacting it with a candidate
CC agent and assaying for binding activity. The polymorphic variant is
CC useful for studying expression and function of ISL1 and expressing ISL1
CC protein for use in screening for candidate drugs to treat diseases
CC related to ISL1 activity (e.g. diabetes and motor neuron defects). The
CC polymorphism and haplotype data is useful for validating whether ISL1 is
CC a suitable target for drugs to treat disorders related to defects in
CC motor neuron and diabetes, screening for such drugs and reducing bias in
CC clinical trials of such drugs. The polymorphic variant is also useful for
CC therapeutic purposes. The method is also useful for screening compounds
CC to treat a specific condition or disease predicted to be associated with
CC ISL1 activity. The ISL1 gene is located on human chromosome 5q. The
CC present sequence is the 3' terminus of an allele specific oligonucleotide
CC (ASO) primer extension primer used to detect the ISL1 polymorphisms
XX

SO Sequence 10 BP; 2 A; 3 C; 3 G; 2 T; 0 U; 0 Other;

Query Match 28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 56;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1495 GACTTCAGCA 1504
DB 10 GGCTTCAGCA 1

RESULT 116

ABK11491
ID ABK11491 standard; DNA; 10 BP.

XX ABK11491;

DT 05-JUN-2002 (first entry)

DE Oligonucleotide primer #3, to detect human ADRB3 gene polymorphisms.

XX Human; beta-3-adrenergic; receptor; ADRB3; primer; anorectic; ss;
KW antidiabetic; gene therapy; morbid obesity; insulin resistance;
KW non-insulin-dependent diabetes mellitus; haplotyping; SNP;
KW single nucleotide polymorphism.

XX Homo sapiens.

OS

PN WO200208425-A2.

PD 31-JAN-2002.

PF 23-JUL-2001; 2001WO-US023223.

PR 21-JUL-2000; 2000US-0220088P.

PA (GENA-) GENAISSANCE PHARM INC.

PI Finkel K, Koshy B;

DR WPI; 2002-241571/29.

XX Novel genetic variants of beta-3-adrenergic receptor gene useful in
PT studying expression and function of the protein, and for screening drugs
PT to treat diseases e.g. obesity, non-insulin dependent diabetes mellitus.

PS Claim 19; Page 15; 91pp; English.

XX The present invention relates to a new polypeptide comprising a sequence
CC which is a polymorphic variant of a reference sequence for ADRB3 (beta-3-
CC adrenergic receptor) protein. The reference sequence comprises a sequence

CC of 408 amino acids as given in the specification, or its fragment, and
 CC the polymorphic variant comprises one or more variant amino acids. The
 CC polymorphic variants are useful in studying the expression and function
 CC of ADRB3. In expressing ADRB3 protein for use in screening for candidate
 CC drugs to treat diseases related to ADRB3 activity, in studying the effect
 CC of the variation on the biological activity of ADRB3, and the binding
 CC affinity of candidate drugs targeting ADRB3 for the treatment of
 CC disorders such as morbid obesity, insulin resistance and an early onset
 CC of non-insulin-dependent diabetes mellitus. Haplotyping methods are
 CC useful in validating ADRB3 as a candidate target for treating a specific
 CC condition or disease predicted to be associated with ADRB3 activity, or
 CC in the design of clinical trials of candidate drugs for treating a
 CC specific condition or disease associated with ADRB3 activity. The present
 CC nucleic acid sequence represents one of a collection of oligonucleotide
 CC primers (ABK11489- ABK11512) that were used in the methods of the
 CC invention to detect polymorphisms in the human ADRB3 gene

SO Sequence 10 BP; 3 A; 4 C; 3 G; 0 T; 0 U; 0 Other;
 Query Match 28.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 56;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1484 CCAGAGAGCC 1493
 Db 1 CCAGAGAGCC 10

RESULT 117
 ABK72629
 ID ABK72629 standard; DNA; 10 BP.
 XX
 AC ABK72629;
 XX
 DT 30-JUL-2002 (first entry)
 XX

XX Leukotriene B4 receptor primer extension oligonucleotide #1.
 XX Human; leukotriene B4; receptor; chemokine receptor-like 1; LTB4R;
 KM chemottractant; inflammation; immune response; infection;
 KM inflammatory disorder; recombinant non-human animal;
 KM primer extension oligonucleotide; ss.

XX Homo sapiens.
 OS
 XX WO200230949-A2.
 XX
 PD 18-APR-2002.
 XX
 PF 12-OCT-2001; 2001WO-US032002.
 XX
 PR 13-OCT-2000; 2000US-0240223P.
 XX
 PA (GENA-) GENAISSANCE PHARM INC.

XX Bieglecki KM, Chew A, Koshy B, Sanchis A, Sausker EA;
 PI
 XX WPI; 2002-416857/44.
 DR

XX Novel isolated human leukotriene B4 receptor polynucleotide, useful for
 PT therapeutic purposes, for studying expression and function of the
 PT polynucleotide, and for expressing the receptor.

XX Claim 17; Page 14; 69pp; English.

XX The invention describes an isolated human leukotriene B4 receptor
 CC (chemokine receptor-like 1) (LTB4R) polynucleotide (1) comprising a
 CC sequence which is a polymorphic variant for a reference sequence for the
 CC LTB4R gene or its fragment, or a polymorphic variant of a reference
 CC sequence for a LTB4R cDNA or its fragment. LTB4R is a potent
 CC chemottractant that is primarily involved in inflammation, immune
 CC responses and host defense against infection. (1) is useful in studying
 CC the expression and function of LTB4R, and in expressing LTB4R protein for

CC use in screening for candidate drugs to treat diseases related to LTB4R
 CC activity, e.g. inflammatory disorders. A recombinant non-human animal is
 CC useful for studying expression of the LTB4R isogenes in vivo, for in vivo
 CC screening and testing of drugs targeted against LTB4R protein, and for
 CC testing the efficacy of therapeutic agents and compounds for diseases
 CC associated with LTB4R activity, e.g. inflammatory disorders, in a
 CC biological system. This sequence represents a primer extension
 CC oligonucleotide used for detecting polymorphisms in the leukotriene B4
 CC receptor (LTB4R) gene

SO Sequence 10 BP; 1 A; 4 C; 2 G; 3 T; 0 U; 0 Other;

Query Match 28.0%; Score 8.4; DB 1; Length 10;
 Best Local Similarity 90.0%; Pred. No. 56;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1497 CTTGAGCAGC 1506
 Db 1 CTTGAGCAGC 10

RESULT 118
 ACA94480/C
 ID ACA94480 standard; DNA; 10 BP.
 XX
 AC ACA94480;
 XX
 DT 18-JUL-2003 (first entry)
 XX

DE DNA tag from human transcript elevated in adenomas/cancers #61.

XX Colorectal cancer; colorectal adenoma; ss; human; renal dipeptidase;
 KM macrophage inhibitory cytokine; MIC; RDP; faeces; blood;
 KM kidney proximal tubule.

XX Homo sapiens.
 OS
 XX WO2003022863-A1.
 XX
 PD 20-MAR-2003.
 XX
 PF 09-SEP-2002; 2002WO-US028518.
 XX
 PR 07-SEP-2001; 2001US-0317494P.
 PR 30-MAY-2002; 2002US-0383805P.
 XX
 PA (UYJO) UNIV JOHNS HOPKINS SCHOOL MEDICINE.

XX Buckhaults P, Kinzler KM, Vogelstein B;
 PI
 XX WPI; 2003-313220/30.
 DR

XX Detecting colorectal cancer in a subject, involves detecting macrophage
 PT inhibitory cytokine or renal dipeptidase or their mRNA in feces or blood
 PT of the subject.

XX Disclosure; Page 26; 59pp; English.

XX The invention relates to detecting CC (colorectal cancer e.g. colorectal
 CC adenoma), comprising: (a) detecting macrophage inhibitory cytokine (MIC)
 CC or renal dipeptidase (RDP) in faeces or blood of a subject and comparing
 CC amount of MIC or RDP detected to that in normal subjects, where an
 CC elevated amount of MIC or RDP in the subject is an indicator of CC in
 CC subject; (b) isolating mRNA sample from faeces of a subject, detecting
 CC MIC or RDP mRNA in the mRNA sample, and comparing amount of MIC or RDP
 CC mRNA detected to that in normal subjects, where an elevated amount of MIC
 CC or RDP mRNA in the subject is an indicator of CC in subject; (c)
 CC isolating epithelial cells from blood of a subject, isolating an mRNA
 CC sample from faeces of a subject or epithelial cells, detecting MIC or RDP
 CC mRNA in the mRNA sample, and comparing the amount of MIC or RDP mRNA in
 CC the mRNA sample to amounts of MIC or RDP mRNA in normal subjects, where
 CC an elevated amount of MIC or RDP mRNA in the mRNA sample is an indicative
 CC of CC in the subject; (d) contacting blood or faeces of a subject, with

CC an RDP substrate, detecting activity of RDP in the blood or faeces by
CC detection of increased reaction product or decreased RDP substrate, and
CC comparing the amount of activity of RDP in blood or faeces of the subject
CC to that in normal subjects, where an elevated amount of activity of RDP
CC in the blood or faeces of the subject is an indicator of CC in the
CC subject; (e) administering to a subject an antibody which specifically
CC binds to RDP or an inhibitor of RDP, where the antibody or inhibitor is
CC labeled with a moiety which is detectable from outside of the subject and
CC detecting the moiety in the subject from outside of the subject, where an
CC area of localization of the moiety within the subject but outside the
CC proximal tubules of the kidney identifies CC; or (f) administering to a
CC subject a substrate for RDP, the substrate being labeled with a
CC detectable moiety, isolating faeces or blood from the subject, and
CC detecting in the faeces or blood RDP reaction product or decreased
CC with the detectable moiety, where increased product or decreased
CC substrate in the faeces or blood indicates CC in the subject. The methods
CC are useful for detecting colorectal cancer in a subject. The present
CC sequence is a DNA tag derived from a human transcript whose expression is
CC elevated in colorectal cancer or colorectal adenoma
XX

QY Sequence 10 BP; 1 A; 1 C; 4 G; 4 T; 0 U; 0 Other;
SQ

Query Match 28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 56;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1492 CCAGACTCA 1501
DB 10 CCAGACTCA 1

RESULT 119
ABT14411
ID ABT14411 standard; DNA; 10 BP.
XX
AC ABT14411;
XX
DT 20-FEB-2003 (first entry)
XX
DE Nucleic acid PCR amplification method-related RAPD PCR primer #181.
XX
KW Nucleic acid amplification; nucleic acid analysis; DNA analysis; ss;
XX RNA analysis; RAPD; PCR; primer; random amplified polymorphic DNA.
XX
OS Unidentified.
XX
PN WO200281743-A2.
XX
PD 17-OCT-2002.
XX
PF 28-MAR-2002; 2002WO-GB001489.
XX
PR 02-APR-2001; 2001GB-00008182.
XX
PA (HAM1/) HAM1LL B.
XX
PI Ham1ll B;
XX
DR WPI; 2003-075484/07.
XX
PT Amplification of nucleotide sequences from polynucleotides by chain
XX extension of oligonucleotide primers, comprises 2 oligonucleotides in
XX solution, 2 attached to supports and both share complementary sequences.
XX
PS Disclosure; Fig 17; 60pp; English.
XX
XX The invention comprises a method for the PCR amplification of nucleic
XX acids. The method involves a set of primers, where two of the primers are
XX in solution and at least two other primers are attached to a solid
XX support. The method of the invention can be used for the analysis of a
XX nucleic acid or a mixture of nucleic acids, including: single-stranded
XX DNA molecules, double-stranded DNA molecules and mRNA molecules. The
XX present DNA sequence represents a random amplified polymorphic DNA (RAPD)

CC PCR primer of the invention
XX
SQ Sequence 10 BP; 3 A; 3 C; 3 G; 1 T; 0 U; 0 Other;
XX

QY 1488 GAAGCCAGAC 1497
DB 1 GATGCCAGAC 10

RESULT 120
ABT14323
ID ABT14323 standard; DNA; 10 BP.
XX
AC ABT14323;
XX
DT 20-FEB-2003 (first entry)
XX
DE Nucleic acid PCR amplification method-related RAPD PCR primer #93.
XX
KW Nucleic acid amplification; nucleic acid analysis; DNA analysis; ss;
XX RNA analysis; RAPD; PCR; primer; random amplified polymorphic DNA.
XX
OS Unidentified.
XX
PN WO200281743-A2.
XX
PD 17-OCT-2002.
XX
PF 28-MAR-2002; 2002WO-GB001489.
XX
PR 02-APR-2001; 2001GB-00008182.
XX
PA (HAM1/) HAM1LL B.
XX
PI Ham1ll B;
XX
DR WPI; 2003-075484/07.
XX
PT Amplification of nucleotide sequences from polynucleotides by chain
XX extension of oligonucleotide primers, comprises 2 oligonucleotides in
XX solution, 2 attached to supports and both share complementary sequences.
XX
PS Disclosure; Fig 17; 60pp; English.
XX
XX The invention comprises a method for the PCR amplification of nucleic
XX acids. The method involves a set of primers, where two of the primers are
XX in solution and at least two other primers are attached to a solid
XX support. The method of the invention can be used for the analysis of a
XX nucleic acid or a mixture of nucleic acids, including: single-stranded
XX DNA molecules, double-stranded DNA molecules and mRNA molecules. The
XX present DNA sequence represents a random amplified polymorphic DNA (RAPD)
XX PCR primer of the invention
XX

QY Sequence 10 BP; 4 A; 2 C; 4 G; 0 T; 0 U; 0 Other;
SQ

Query Match 28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 56;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1486 AAGAGCCGAG 1495
DB 1 AAGAGCCGAG 10

RESULT 121
AAK14955/C
ID AAK14955 standard; DNA; 11 BP.
XX
AC AAK14955;

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XX 27-AUG-2003 (revised)
DT 24-MAR-1999 (first entry)
XX
XX Triple helix third strand of 23S rRNA gene nucleotides 486-496.
DE
XX
XX Triple helix formation; DNA detection; triple helix; identification; bacteria;
KW oncogene; virus; ss.
XX
XX Synthetic.
OS Pseudomonas sp.
XX
XX US5861244-A:
PN 19-JAN-1999.
XX
XX 22-DEC-1993; 93US-00173489.
PF
XX 29-OCT-1992; 92US-00968436.
PR
XX (PROF-) PROFILE DIAGNOSTIC SCI INC.
XX
XX Hepburn AG, Wang C;
PI WPI; 1999-130384/11.
DR
XX Assay of genetic sequences based on triple helix formation from double
PT stranded analyte - and hybrid of anchor and reporter sequences; with
PT reporter released if triple helix formation occurs; used e.g. to identify
PT bacteria.
XX
XX Disclosure; Col 25-26; 168pp; English.
PS
XX The present sequence represents a polynucleotide that is able to form a
CC triple helix with a double stranded sequence. Cytosine bases in the
CC present can be replaced with 5-methylcytosine for increased triple
CC stability. The present sequence is used in the assay of the invention,
CC where it can be part of the anchor DNA or reporter DNA sequence. The
CC assay comprises adding a sample containing double-stranded DNA test
CC sequences to an aqueous medium containing at least one complex of anchor
CC DNA, attached to a solid support, and reporter DNA, where either a part
CC of the anchor DNA or reporter DNA is designed to form a triple-strand
CC structure with part of the test sequence. Triple helix formation results in
CC displacement of the reporter DNA which is detected as an indication of
CC the presence of the DNA test sequence. The method is used to detect DNA
CC sequences, particularly for identification of bacteria (by detecting
CC genes for ribosomal RNA) in clinical samples, but also detection of
CC oncogenes and Hepatitis B virus. (Updated on 27-AUG-2003 to correct OS
CC field.)
XX
XX Sequence 11 BP; 0 A; 4 C; 1 G; 6 T; 0 U; 0 Other;
SQ
Query Match 28.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 60;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1482 GACCAAGAG 1491
    |||||
    11 GAACAGAG 2
Db
RESULT 122
AB086554
ID AB086554 standard; cDNA; 11 BP.
XX
XX AB086554;
AC
XX 10-SEP-2002 (first entry)
DT
XX Human skin stress/ageing related EST SEQ ID NO 309.
DE
XX Human, skin ageing; skin stress; EST; expressed sequence tag; ss.
XX

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OS Homo sapiens.
XX
XX WO200253773-A2.
PN
XX
XX 11-JUL-2002.
PD
XX
XX 20-DEC-2001; 2001WO-EP015178.
PF
XX 03-JAN-2001; 2001DE-01000121.
PR
XX (HENK ) HENKEL KGAA.
PA
XX Petersohn D, Conradt M, Hofmann K;
PI WPI; 2002-528865/56.
DR
XX
XX Identifying genes involved in skin stress and aging; useful e.g. in
PT screening for cosmetic or therapeutic agents; based on differential gene
PT expression.
XX
XX Claim 8; Page 49; 325pp; German.
PS
XX The invention relates to identifying (M1) genes in vitro that, in humans
CC or animals, are important for skin ageing and/or skin stress by serial
CC analysis of gene expression between mixtures of transcribed and
CC optionally translated, genetically encoded factors (A) obtained from
CC young and aged skin, to identify that genes that show strong differential
CC expression. (A) comprises protein or mRNAs or their fragments. (M1) is
CC useful for: identifying markers of skin ageing and/or stress; determining
CC skin ageing and/or stress; and identifying or determining the effects of
CC pharmaceutical or cosmetic agents for control of skin ageing. The present
CC sequence is one of a group of human skin ageing/stress related expressed
CC sequence tags (AB086246-AB087680) of the invention
XX
XX Sequence 11 BP; 3 A; 4 C; 3 G; 1 T; 0 U; 0 Other;
SQ
Query Match 28.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 60;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1484 CCAAGAGCC 1493
    |||||
    2 CCAAGATGCC 11
Db
RESULT 123
AB086306/c
ID AB086306 standard; cDNA; 11 BP.
XX
XX AB086306;
AC
XX 10-SEP-2002 (first entry)
DT
XX
XX Human skin stress/ageing related EST SEQ ID NO 61.
DE
XX Human, skin ageing; skin stress; EST; expressed sequence tag; ss.
XX
XX Homo sapiens.
OS
XX WO200253773-A2.
PN
XX 11-JUL-2002.
PD
XX 20-DEC-2001; 2001WO-EP015178.
PF
XX 03-JAN-2001; 2001DE-01000121.
PR
XX (HENK ) HENKEL KGAA.
PA
XX Petersohn D, Conradt M, Hofmann K;
PI WPI; 2002-528865/56.
DR
XX

```


PT Identifying genes involved in skin stress and aging; useful e.g. in
PT screening for cosmetic or therapeutic agents, based on differential gene
XX expression.
XX
PS Claim 8; Page 39; 325bp; German.
XX
CC The invention relates to identifying (M1) genes in vitro that, in humans
CC or animals, are important for skin aging and/or skin stress by serial
CC analysis of gene expression between mixtures of transcribed and
CC optionally translated, genetically encoded factors (A) obtained from
CC young and aged skin, to identify that genes that show strong differential
CC expression. (A) comprises protein or mRNAs or their fragments. (M1) is
CC useful for: identifying markers of skin aging and/or stress; determining
CC skin aging and/or stress; and identifying or determining the effects of
CC pharmaceutical or cosmetic agents for control of skin aging. The present
CC sequence is one of a group of human skin aging/stress related expressed
XX sequence tags (AB086246-AB087680) of the invention
SQ Sequence 11 BP; 2 A; 2 C; 5 G; 2 T; 0 U; 0 Other;

Query Match 28.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 60;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1498 TTCACGACCC 1507
DB 11 TTCACGACCC 2

RESULT 124
AB087206/c
ID AB087206 standard; cDNA; 11 BP.
XX
AC AB087206;
XX
DT 10-SEP-2002 (first entry)
XX
DE Human skin stress/aging related EST SEQ ID NO 961.
XX
KM Human; skin aging; skin stress; EST; expressed sequence tag; ss.
XX
OS Homo sapiens.
XX
PN WO200253773-A2.
XX
PD 11-JUL-2002.
XX
PF 20-DEC-2001; 2001WO-EP015178.
XX
PR 03-JAN-2001; 2001DE-01000121.
XX
PA (HENK) HENKEL KGAA;
XX
PI Petersohn D, Conradt M, Hofmann K;
XX
DR WPI; 2002-528665/56.
XX
PT Identifying genes involved in skin stress and aging; useful e.g. in
PT screening for cosmetic or therapeutic agents, based on differential gene
XX expression.
XX
PS Claim 8; Page 77; 325bp; German.
XX
CC The invention relates to identifying (M1) genes in vitro that, in humans
CC or animals, are important for skin aging and/or skin stress by serial
CC analysis of gene expression between mixtures of transcribed and
CC optionally translated, genetically encoded factors (A) obtained from
CC young and aged skin, to identify that genes that show strong differential
CC expression. (A) comprises protein or mRNAs or their fragments. (M1) is
CC useful for: identifying markers of skin aging and/or stress; determining
CC skin aging and/or stress; and identifying or determining the effects of
CC pharmaceutical or cosmetic agents for control of skin aging. The present
CC sequence is one of a group of human skin aging/stress related expressed

CC sequence tags (AB086246-AB087680) of the invention
XX
SQ Sequence 11 BP; 0 A; 3 C; 5 G; 3 T; 0 U; 0 Other;

Query Match 28.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 60;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1479 CACGACCAAG 1488
DB 11 CACGACCAAG 2

RESULT 125
ABV64744/c
ID ABV64744 standard; cDNA; 11 BP.
XX
AC ABV64744;
XX
DT 21-OCT-2002 (first entry)
XX
DE Human skin EST 2530.
XX
KM Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
KM immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
XX psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX
OS Homo sapiens.
XX
PN WO200253774-A2.
XX
PD 11-JUL-2002.
XX
PF 20-DEC-2001; 2001WO-EP015179.
XX
PR 03-JAN-2001; 2001DE-01000127.
XX
PA (HENK) HENKEL KGAA.
XX
PI Petersohn D, Conradt M, Hofmann K;
XX
DR WPI; 2002-590638/63.
XX
PT In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.
XX
PS Disclosure; Page 95; 1345bp; German.
XX
CC The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention
XX
SQ Sequence 11 BP; 3 A; 2 C; 4 G; 2 T; 0 U; 0 Other;

Query Match 28.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 60;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1493 CAGACTTCAG 1502
DB 10 CAGACTTCAG 1

PI Petersohn D, Conradt M, Hofmann K;
XX MPI; 2002-590638/63.
XX
XX In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.
XX
XX Disclosure; Page 216; 1345pp; German.
XX
XX The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention
XX
SQ Sequence 11 BP; 1 A; 1 C; 4 G; 5 T; 0 U; 0 Other;
XX
Query Match 28.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 60;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 1492 CCAGACTTCA 1501
DB 10 CCAGACATCA 1
XX
RESULT 129
ABV66348/c
ID ABV66348 standard; cDNA; 11 BP.
XX
XX ABV66348;
AC
XX 21-OCT-2002 (first entry)
DT
XX Human skin EST 4134.
DE
XX Human; skin; dermatological; vulnery; antipsoriatic; antisborrhaic;
KW immunosuppressive; antinflammatory; cytostatic; SAGE; neurodermatitis;
KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX
XX Homo sapiens.
OS
XX WO200253774-A2.
PN
XX 11-JUL-2002.
PD
XX 20-DEC-2001; 2001WO-EP015179.
PF
XX 03-JAN-2001; 2001DE-01000127.
PR
XX (HENK) HENKEL KGAA.
PA
XX Petersohn D, Conradt M, Hofmann K;
PI Petersohn D, Conradt M, Hofmann K;
XX MPI; 2002-590638/63.
XX
XX In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.
XX
XX Disclosure; Page 139; 1345pp; German.
XX
XX The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC (EST) of the invention

CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention
XX
SQ Sequence 11 BP; 2 A; 4 C; 3 G; 2 T; 0 U; 0 Other;
XX
Query Match 28.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 60;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
OY 1493 CAGACTTCAG 1502
DB 11 CAGGCTTCAG 2
XX
RESULT 130
ABV66542
ID ABV66542 standard; cDNA; 11 BP.
XX
XX ABV66542;
AC
XX 21-OCT-2002 (first entry)
DT
XX Human skin EST 4328.
DE
XX Human; skin; dermatological; vulnery; antipsoriatic; antisborrhaic;
KW immunosuppressive; antinflammatory; cytostatic; SAGE; neurodermatitis;
KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX
XX Homo sapiens.
OS
XX WO200253774-A2.
PN
XX 11-JUL-2002.
PD
XX 20-DEC-2001; 2001WO-EP015179.
PF
XX 03-JAN-2001; 2001DE-01000127.
PR
XX (HENK) HENKEL KGAA.
PA
XX Petersohn D, Conradt M, Hofmann K;
PI Petersohn D, Conradt M, Hofmann K;
XX MPI; 2002-590638/63.
XX
XX In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.
XX
XX Disclosure; Page 144; 1345pp; German.
XX
XX The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention
XX
SQ Sequence 11 BP; 3 A; 4 C; 1 G; 3 T; 0 U; 0 Other;
XX
Query Match 28.0%; Score 8.4; DB 1; Length 11;

Best Local Similarity 90.0%; Pred. No. 60;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1490 AGCCAGACTT 1499
DB 2 ACCCAGACTT 11

RESULT 131

ABV66760
ID ABV66760 standard; cDNA; 11 BP.

XX
XX
AC ABV66760;

XX
XX
DT 21-OCT-2002 (first entry)

XX
XX
DE Human skin EST 4546.

XX
XX
KW Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
KW immunosuppressive; antinflammatory; cytostatic; SAGE; neurodermatitis;
KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.

XX
XX
OS Homo sapiens.

XX
XX
PN WO200253774-A2.

XX
XX
PD 11-JUL-2002.

XX
XX
PF 20-DEC-2001; 2001WO-EP015179.

XX
XX
PR 03-JAN-2001; 2001DE-01000127.

XX
XX
PA (HENK) HENKEL KGAA.

XX
XX
PI Petersohn D, Conradt M, Hofmann K;

XX
XX
DR WPI; 2002-590638/63.

XX
XX
PT In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.

XX
XX
PS Disclosure; Page 150; 1345bp; German.

XX
XX
CC The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention

XX
XX
SQ Sequence 11 BP; 3 A; 3 C; 3 G; 2 T; 0 U; 0 Other;

Query Match 28.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 60;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1489 AAGCAGACT 1498
DB 1 AAGCAGACTT 10

RESULT 132

ABV68413/c
ID ABV68413 standard; cDNA; 11 BP.

XX
XX
AC ABV68413;

XX
XX
DT 21-OCT-2002 (first entry)

XX
XX
DE Human skin EST 6199.

XX
XX
KW Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
KW immunosuppressive; antinflammatory; cytostatic; SAGE; neurodermatitis;
KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.

XX
XX
OS Homo sapiens.

XX
XX
PN WO200253774-A2.

XX
XX
PD 11-JUL-2002.

XX
XX
PF 20-DEC-2001; 2001WO-EP015179.

XX
XX
PR 03-JAN-2001; 2001DE-01000127.

XX
XX
PA (HENK) HENKEL KGAA.

XX
XX
PI Petersohn D, Conradt M, Hofmann K;

XX
XX
DR WPI; 2002-590638/63.

XX
XX
PT In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.

XX
XX
PS Disclosure; Page 197; 1345bp; German.

XX
XX
CC The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention

XX
XX
SQ Sequence 11 BP; 2 A; 2 C; 5 G; 2 T; 0 U; 0 Other;

Query Match 28.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 60;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1498 TTGACGAGCC 1507
DB 11 TTGACGAGCC 2

RESULT 133
ABV69080/c
ID ABV69080 standard; cDNA; 11 BP.

XX
XX
AC ABV69080;

XX
XX
DT 21-OCT-2002 (first entry)

XX
XX
DE Human skin EST 6866.

XX
XX
KW Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
KW immunosuppressive; antinflammatory; cytostatic; SAGE; neurodermatitis;
KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.

XX
XX
OS Homo sapiens.

XX
XX
PN WO200253774-A2.

PD 11-JUL-2002.
XX
PF 20-DEC-2001; 2001WO-EP015179.
XX
PR 03-JAN-2001; 2001DE-01000127.
XX
PA (HENKEL KGAA.
XX
PI Petersohn D, Conradt M, Hofmann K;
XX
DR WPI; 2002-590638/63.
XX
XX In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.
XX
XX Disclosure; Page 216; 1345pp; German.
PS
XX
XX The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention
XX
SQ Sequence 11 BP; 0 A; 3 C; 5 G; 3 T; 0 U; 0 Other;
XX
Query Match 28.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 60;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
QY 1484 CCAAGAGGCC 1493
DB 10 CCAAGAGGCC 1
XX
RESULT 134
ABV68371
ID ABV68371 standard; cDNA; 11 BP.
XX
AC ABV68371;
XX
DT 21-OCT-2002 (first entry)
XX
DE Human skin EST 6157.
XX
XX Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX
OS Homo sapiens.
XX
PN WO200253774-A2.
XX
PD 11-JUL-2002.
XX
PF 20-DEC-2001; 2001WO-EP015179.
XX
PR 03-JAN-2001; 2001DE-01000127.
XX
PA (HENKEL KGAA.
XX
PI Petersohn D, Conradt M, Hofmann K;
XX
DR WPI; 2002-590638/63.
XX
XX In vitro identification of skin-expressed genes, useful for determining

PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.
XX
XX Disclosure; Page 196; 1345pp; German.
PS
XX
XX The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
CC skin. The present sequence is that of a human expressed sequence tag
CC (EST) of the invention
XX
SQ Sequence 11 BP; 3 A; 4 C; 3 G; 1 T; 0 U; 0 Other;
XX
Query Match 28.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 60;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
XX
QY 1484 CCAAGAGGCC 1493
DB 2 CCAAGAGGCC 11
XX
RESULT 135
ABV68621
ID ABV68621 standard; cDNA; 11 BP.
XX
AC ABV68621;
XX
DT 21-OCT-2002 (first entry)
XX
DE Human skin EST 6407.
XX
XX Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
XX
OS Homo sapiens.
XX
PN WO200253774-A2.
XX
PD 11-JUL-2002.
XX
PF 20-DEC-2001; 2001WO-EP015179.
XX
PR 03-JAN-2001; 2001DE-01000127.
XX
PA (HENKEL KGAA.
XX
PI Petersohn D, Conradt M, Hofmann K;
XX
DR WPI; 2002-590638/63.
XX
XX In vitro identification of skin-expressed genes, useful for determining
PT homeostasis and identifying cosmetic or pharmaceutical agents against
PT e.g. skin cancer.
XX
PS Disclosure; Page 203; 1345pp; German.
XX
XX The invention relates to in vitro identification (M1) of genes expressed
CC in the skin of humans or animals by subjecting a mixture of genetically
CC encoded factors from skin, to serial analysis of gene expression (SAGE)
CC so as to identify skin-expressed genes and quantify their expression.
CC (M1) is useful for identifying genes involved in skin homeostasis; to
CC determine skin homeostasis and to test agent (A) that maintains or
CC promotes skin homeostasis or that can be used for treating skin
CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;

CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus; the
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
 CC skin. The present sequence is that of a human expressed sequence tag
 CC (EST) of the invention
 XX

SO Sequence 11 BP; 2 A; 6 C; 2 G; 1 T; 0 U; 0 Other;

Query Match 28.0%; Score 8.4; DB 1; Length 11;
 Best Local Similarity 90.0%; Pred. No. 60;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1497 CTCGACGAC 1506
 |||||
 DB 2 CTCGACGAC 11

RESULT 136
 ABV63846/c
 ID ABV63846 standard; cDNA; 11 BP.
 AC ABV63846;
 XX

DT 21-OCT-2002 (first entry)

DE Human skin EST 1632.

XX Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
 KM immunosuppressive; antinflammatory; cytostatic; SAGE; neurodermatitis;
 KM psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.

XX Homo sapiens.

XX WO200253774-A2.

XX 11-JUL-2002.

XX 20-DEC-2001; 2001WO-EP015179.

XX 03-JAN-2001; 2001DE-01000127.

PA (HENK) HENKEL KGAA.

PI Petersohn D, Conradt M, Hofmann K;

DR WPI; 2002-590638/63.

PT In vitro identification of skin-expressed genes, useful for determining
 PT homeostasis and identifying cosmetic or pharmaceutical agents against
 PT e.g. skin cancer.

PS Disclosure; Page 69; 1345pp; German.

CC The invention relates to in vitro identification (MI) of genes expressed
 CC in the skin of humans or animals by subjecting a mixture of genetically
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)
 CC so as to identify skin-expressed genes and quantify their expression.
 CC (MI) is useful for identifying genes involved in skin homeostasis; to
 CC determine skin homeostasis and to test agent (A) that maintains or
 CC promotes skin homeostasis or that can be used for treating skin
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
 CC skin. The present sequence is that of a human expressed sequence tag
 CC (EST) of the invention
 XX

SO Sequence 11 BP; 2 A; 2 C; 5 G; 2 T; 0 U; 0 Other;

Query Match 28.0%; Score 8.4; DB 1; Length 11;
 Best Local Similarity 90.0%; Pred. No. 60;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1497 CTCGACGAC 1506
 |||||

DB 11 CTCGACGAC 2

RESULT 137
 ABV65219

ID ABV65219 standard; cDNA; 11 BP.

AC ABV65219;

DT 21-OCT-2002 (first entry)

DE Human skin EST 3095.

XX Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
 KM immunosuppressive; antinflammatory; cytostatic; SAGE; neurodermatitis;
 KM psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.

XX Homo sapiens.

XX WO200253774-A2.

XX 11-JUL-2002.

XX 20-DEC-2001; 2001WO-EP015179.

XX 03-JAN-2001; 2001DE-01000127.

PA (HENK) HENKEL KGAA.

PI Petersohn D, Conradt M, Hofmann K;

DR WPI; 2002-590638/63.

PT In vitro identification of skin-expressed genes, useful for determining
 PT homeostasis and identifying cosmetic or pharmaceutical agents against
 PT e.g. skin cancer.

PS Disclosure; Page 108; 1345pp; German.

CC The invention relates to in vitro identification (MI) of genes expressed
 CC in the skin of humans or animals by subjecting a mixture of genetically
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)
 CC so as to identify skin-expressed genes and quantify their expression.
 CC (MI) is useful for identifying genes involved in skin homeostasis; to
 CC determine skin homeostasis and to test agent (A) that maintains or
 CC promotes skin homeostasis or that can be used for treating skin
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
 CC skin. The present sequence is that of a human expressed sequence tag
 CC (EST) of the invention
 XX

SO Sequence 11 BP; 6 A; 1 C; 4 G; 0 T; 0 U; 0 Other;

Query Match 28.0%; Score 8.4; DB 1; Length 11;
 Best Local Similarity 90.0%; Pred. No. 60;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1487 AGAAGCCAGA 1496
 |||||
 DB 1 AGAAGCCAGA 10

RESULT 138
 ABV66909/c

ID ABV66909 standard; cDNA; 11 BP.

AC ABV66909;

DT 21-OCT-2002 (first entry)

DE Human skin EST 4695.

KW Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
 KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
 KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
 OS Homo sapiens.
 XX
 XX WO200253774-A2.
 XX
 XX 11-JUL-2002.
 PD
 XX
 PF 20-DEC-2001; 2001WO-EP015179.
 XX
 XX 03-JAN-2001; 2001DE-01000127.
 PR
 XX (HENK) HENKEL KGAA.
 XX
 XX Petersohn D, Conradt M, Hofmann K;
 PI
 XX WPI; 2002-590638/63.
 DR
 XX
 XX In vitro identification of skin-expressed genes, useful for determining
 PT homeostasis and identifying cosmetic or pharmaceutical agents against
 PT e.g. skin cancer.
 PS Disclosure; Page 154; 1345pp; German.
 XX
 XX The invention relates to in vitro identification (M1) of genes expressed
 CC in the skin of humans or animals by subjecting a mixture of genetically
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)
 CC so as to identify skin-expressed genes and quantify their expression.
 CC (M1) is useful for identifying genes involved in skin homeostasis; to
 CC determine skin homeostasis and to test agent (A) that maintains or
 CC promotes skin homeostasis or that can be used for treating skin
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
 CC skin. The present sequence is that of a human expressed sequence tag
 CC (EST) of the invention
 CC
 SQ Sequence 11 BP; 0 A; 3 C; 5 G; 3 T; 0 U; 0 Other;
 Query Match 28.0%; Score 8.4; DB 1; Length 11;
 Best Local Similarity 90.0%; Pred. No. 60;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1479 CACGACCCAG 1488
 DB 11 CACGACCCAG 2
 RESULT 139
 ABV71267/c
 ID ABV71267 standard; cDNA; 11 BP.
 XX
 XX ABV71267;
 AC
 XX
 XX 21-OCT-2002 (first entry)
 DT
 XX
 XX Human skin EST 9053.
 DE
 XX
 XX Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
 KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
 KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
 XX
 OS Homo sapiens.
 XX
 XX WO200253774-A2.
 XX
 XX 11-JUL-2002.
 PD
 XX
 PF 20-DEC-2001; 2001WO-EP015179.
 XX
 XX 03-JAN-2001; 2001DE-01000127.
 PR

XX
 PA (HENK) HENKEL KGAA.
 XX
 XX Petersohn D, Conradt M, Hofmann K;
 PI
 XX WPI; 2002-590638/63.
 DR
 XX
 XX In vitro identification of skin-expressed genes, useful for determining
 PT homeostasis and identifying cosmetic or pharmaceutical agents against
 PT e.g. skin cancer.
 PS Claim 24; Page 291; 1345pp; German.
 XX
 XX The invention relates to in vitro identification (M1) of genes expressed
 CC in the skin of humans or animals by subjecting a mixture of genetically
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)
 CC so as to identify skin-expressed genes and quantify their expression.
 CC (M1) is useful for identifying genes involved in skin homeostasis; to
 CC determine skin homeostasis and to test agent (A) that maintains or
 CC promotes skin homeostasis or that can be used for treating skin
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
 CC skin. The present sequence is that of a human expressed sequence tag
 CC (EST) of the invention
 CC
 SQ Sequence 11 BP; 2 A; 2 C; 5 G; 2 T; 0 U; 0 Other;
 Query Match 28.0%; Score 8.4; DB 1; Length 11;
 Best Local Similarity 90.0%; Pred. No. 60;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
 QY 1497 CTTCCGACGC 1506
 DB 11 CTTCCGACGC 2
 RESULT 140
 ABV67181
 ID ABV67181 standard; cDNA; 11 BP.
 XX
 XX ABV67181;
 AC
 XX
 XX 21-OCT-2002 (first entry)
 DT
 XX
 XX Human skin EST 4967.
 DE
 XX
 XX Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
 KW immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
 KW psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
 XX
 OS Homo sapiens.
 XX
 XX WO200253774-A2.
 XX
 XX 11-JUL-2002.
 PD
 XX
 PF 20-DEC-2001; 2001WO-EP015179.
 XX
 XX 03-JAN-2001; 2001DE-01000127.
 PR
 XX (HENK) HENKEL KGAA.
 XX
 XX Petersohn D, Conradt M, Hofmann K;
 PI
 XX WPI; 2002-590638/63.
 DR
 XX
 XX In vitro identification of skin-expressed genes, useful for determining
 PT homeostasis and identifying cosmetic or pharmaceutical agents against
 PT e.g. skin cancer.
 PS Disclosure; Page 162; 1345pp; German.
 XX

CC The invention relates to in vitro identification (M1) of genes expressed
 CC in the skin of humans or animals by subjecting a mixture of genetically
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)
 CC so as to identify skin-expressed genes and quantify their expression.
 CC (M1) is useful for identifying genes involved in skin homeostasis; to
 CC determine skin homeostasis and to test agent (A) that maintains or
 CC promotes skin homeostasis or that can be used for treating skin
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
 CC skin. The present sequence is that of a human expressed sequence tag
 CC (EST) of the invention

XX SQ Sequence 11 BP; 2 A; 3 C; 2 G; 4 T; 0 U; 0 Other;

XX Query Match 28.0%; Score 8.4; DB 1; Length 11;
 XX Best Local Similarity 90.0%; Pred. No. 60;
 XX Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1497 CTTACGACG 1506
 DB 2 CTTACGACG 11

RESULT 141
 ABV66102/c
 ID ABV66102 standard; cDNA; 11 BP.
 XX
 XX ABV66102;
 AC
 XX 21-OCT-2002 (first entry)
 DT
 XX Human skin EST 3888.
 DE
 XX Human; skin; dermatological; vulnery; antipsoriatic; antiseborrhoeic;
 KM immunosuppressive; antiinflammatory; cytostatic; SAGE; neurodermatitis;
 KM psoriasis; dermatitis; skin cancer; EST; expressed sequence tag; ss.
 XX
 XX Homo sapiens.
 OS
 XX WO200253774-A2.
 PN
 XX 11-JUL-2002.
 PD
 XX 20-DEC-2001; 2001WO-EP015179.
 PF
 XX 03-JAN-2001; 2001DE-01000127.
 PR
 XX (HENK) HENKEL KGAA.
 PA
 XX Petersohn D, Conradt M, Hofmann K;
 PI
 XX WPI; 2002-590638/63.
 DR
 XX
 XX In vitro identification of skin-expressed genes, useful for determining
 PT homeostasis and identifying cosmetic or pharmaceutical agents against
 PT e.g. skin cancer.
 PT
 XX
 XX Disclosure; Page 132; 1345pp; German.
 PS
 XX The invention relates to in vitro identification (M1) of genes expressed
 CC in the skin of humans or animals by subjecting a mixture of genetically
 CC encoded factors from skin, to serial analysis of gene expression (SAGE)
 CC so as to identify skin-expressed genes and quantify their expression.
 CC (M1) is useful for identifying genes involved in skin homeostasis; to
 CC determine skin homeostasis and to test agent (A) that maintains or
 CC promotes skin homeostasis or that can be used for treating skin
 CC disorders, specifically neurodermatitis; sunburn; psoriasis; scleroderma;
 CC ichthyosis; atopic dermatitis; acne; seborrhea; lupus erythematosus;
 CC rosacea; melanoma; basal cell carcinoma; and carcinoma or sarcoma of the
 CC skin. The present sequence is that of a human expressed sequence tag
 CC (EST) of the invention

SQ Sequence 11 BP; 1 A; 3 C; 4 G; 3 T; 0 U; 0 Other;

XX Query Match 28.0%; Score 8.4; DB 1; Length 11;
 XX Best Local Similarity 90.0%; Pred. No. 60;
 XX Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

OY 1494 AGACTGCACG 1503
 DB 11 AGACTGCACG 2

RESULT 142
 AAS21210/c
 ID AAS21210 standard; DNA; 11 BP.
 XX
 XX AAS21210;
 AC
 XX 09-APR-2002 (first entry)
 DT
 XX Transmissible gastroenteritis virus full length clone, C/DE-1 junction.
 DE
 XX Transmissible gastroenteritis virus; TGE; gene transfer;
 KM recombinant viral genome; gene therapy; artificial chromosome; vaccine;
 KM ds.
 XX
 XX Transmissible gastroenteritis virus.
 OS
 XX Synthetic.
 OS
 XX Key Location/Qualifiers
 FH mutation /tag= a
 FT misc_feature 7..8
 FT /tag= b
 FT /note= "Restriction enzyme BglI cleaves at this site
 FT creating a sticky end"
 FT mutation /tag= c
 FT
 XX WO200190340-A2.
 PN
 XX 29-NOV-2001.
 PD
 XX 21-MAY-2001; 2001WO-US016564.
 PF
 XX 21-MAY-2000; 2000US-0206537P.
 PR 20-APR-2001; 2001US-0285320P.
 PR
 XX (UYNC-) UNIV NORTH CAROLINA.
 PA
 XX Baric RS, Yount B;
 PI
 XX WPI; 2002-114288/15.
 DR
 XX
 XX Directionally assembling a recombinant viral genome, useful for
 PT manipulating the genomes of plants, animals, bacteria or viruses for gene
 PT therapy, by ligating the subclones of the viral genome to assemble a
 PT recombinant viral genome.
 PT
 XX
 XX Example 7; Page 22; 42pp; English.
 PS
 XX The invention describes a method of directionally assembling a
 CC recombinant viral genome comprising ligating the subclones of the viral
 CC genome to assemble a recombinant viral genome, particularly coronavirus.
 CC For directionally assembling a recombinant viral genome. In particular,
 CC the method is useful for manipulating the genomes of higher plants and
 CC animals, as well as bacteria and viruses. In particular, the method is
 CC useful for the precise genetic manipulation of individual chromosomes in
 CC whole plants and animals and the construction of artificial chromosomes
 CC for gene therapy. The genomes produced are useful in preparing vaccines
 CC and expression vectors (e.g., TGE vectors and vaccines), which are useful
 CC in protocols involving vaccination, gene transfer and gene therapy. This
 CC sequence represents the interconnecting junction site C/DE-1 used in the

CC assembly of the full length transmissible gastroenteritis virus (TGE)
 CC genome described in the method of the invention
 CC Sequence 11 BP; 0 A; 4 C; 3 G; 4 T; 0 U; 0 Other;

Query Match 28.0%; Score 8.4; DB 1; Length 11;
 Best Local Similarity 90.0%; Pred. No. 60;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1484 CCAAGAGCC 1493
 DB 10 CCAAGAGGC 1

RESULT 143

ID ABT16435/c
 ID ABT16435 standard; DNA; 11 BP.

AC ABT16435;

XX 20-MAR-2003 (first entry)

DE Human neurokinin 1 receptor gene polymorphic region SEQ ID No 16.

XX Cytostatic; antiasthmatic; antiinflammatory; cardiant; polymorphic site;
 KW human neurokinin 1 receptor; TACRI; disease phenotype; forensics;
 KW TACRI ligand mediated disease; asthma; paternity testing; cancer;
 KW inflammation; heart disease; central nervous system; infection; ds.

XX Homo sapiens.

OS
 XX
 PN EP1262565-A2;

XX 04-DEC-2002.

PD 23-MAY-2002; 2002EP-00253662.

XX 25-MAY-2001; 2001US-0293425P.

XX (PFIZ) PFIZER PROD INC.

PA Affourtit JP, Nelson DL, Seymour AB, Webb SM;

XX WPI; 2003-150228/15.

DR Novel nucleic acid segment from human neurokinin 1 receptor, including
 XX polymorphic sites for diagnosing and treating asthma, and in forensics,
 PT paternity testing, and genetic mapping of the traits.

PS Claim 1; Page 25; 27pp; English.

XX The invention relates to a nucleic acid segment from the human neurokinin
 CC 1 receptor (TACRI) gene of 10-100 nucleotides comprising a fragment
 CC having a polymorphic site or a complement of the fragment. The TACRI
 CC segment is useful for analysing a nucleic acid, by obtaining the nucleic
 CC acid from an individual, and determining the base occupying any one of
 CC the polymorphic sites in the segment. The nucleic acid is obtained from
 CC several individuals, and the base occupying one of the polymorphic sites
 CC is determined in each of the individuals, and further involves testing
 CC each of the individuals for the presence of a disease phenotype, and
 CC correlating the presence with the base. The TACRI segment is useful for
 CC diagnosing and treating TACRI ligand mediated diseases, such as asthma.
 CC The TACRI segment is also useful in forensics, paternity testing,
 CC correlating polymorphisms with phenotypic traits, and genetic mapping of
 CC phenotypic traits. The TACRI segment is useful in diagnosing and
 CC monitoring of diseases such as cancer, inflammation, heart disease,
 CC diseases of central nervous system, and susceptibility to infection to
 CC microorganisms. The TACRI segment is also useful in the manufacture of a
 CC medicament for the treatment of the diseases. This polynucleotide
 CC sequence represents a polymorphic region of the human neurokinin 1
 CC receptor (TACRI) gene of the invention
 XX
 SQ Sequence 11 BP; 3 A; 1 C; 3 G; 4 T; 0 U; 0 Other;

Query Match 28.0%; Score 8.4; DB 1; Length 11;
 Best Local Similarity 90.0%; Pred. No. 60;
 Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1489 AAGCCAGACT 1498
 DB 10 AAGCCATACT 1

Search completed: April 15, 2004, 16:35:36
 Job time : 1 secs

GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: April 15, 2004, 16:36:47 ; Search time 0.001 Seconds
(without alignments)
34.620 Million cell updates/sec

Title: us-09-954-556-3
Perfect score: 30
Sequence: 1 cagcacaagaagcagcagcttcagcagcca 30

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 0.5

Searched: 44 seqs, 577 residues

Total number of hits satisfying chosen parameters: 88

Minimum DB seq length: 8
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 44 summaries

Database: rni.seq:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	14.4	48.0	17	1	US-08-541-950B-17
2	14.4	48.0	17	1	US-08-541-950B-20
3	14.4	48.0	17	1	US-09-083-756A-17
4	14.4	48.0	17	1	US-09-083-756A-20
5	14.4	48.0	18	1	US-08-541-950B-23
6	14.4	48.0	18	1	US-09-083-756A-23
7	13.8	46.0	17	1	US-09-325-601-1
8	13.8	46.0	18	1	US-08-541-950B-13
9	13.8	46.0	18	1	US-09-083-756A-13
10	13.8	46.0	18	1	US-09-325-601-3
11	12.8	42.7	17	1	US-08-541-950B-18
12	12.8	42.7	17	1	US-08-541-950B-19
13	12.8	42.7	17	1	US-08-541-950B-21
14	12.8	42.7	17	1	US-08-541-950B-22
15	12.8	42.7	17	1	US-09-083-756A-18
16	12.8	42.7	17	1	US-09-083-756A-19
17	12.8	42.7	17	1	US-09-083-756A-21
18	12.8	42.7	17	1	US-09-083-756A-22
19	11.8	39.3	15	1	US-08-363-240A-47
20	11.4	38.0	15	1	US-08-050-073-65
21	9.4	31.3	12	1	US-09-281-418-65
22	9.4	31.3	12	1	US-09-508-753B-25
23	8.4	28.0	10	1	US-09-263-790-36
24	8.4	28.0	10	1	US-09-721-777-18
25	8.4	28.0	10	1	US-08-545-253A-20
26	8.4	28.0	10	1	US-08-719-337-20
27	8.4	28.0	10	1	US-09-255-432-6
28	8.4	28.0	10	1	US-08-878-835A-12
29	8.4	28.0	10	1	US-09-508-753B-28
30	8.4	28.0	10	1	US-09-508-753B-63
31	8.4	28.0	10	1	US-08-894-454-110
32	8.4	28.0	10	1	US-09-758-073-6
33	8.4	28.0	11	1	US-08-173-489C-342

C 34	8.4	28.0	11	1	US-09-862-847-15	Sequence 15, Appl
C 35	8	26.7	8	1	US-08-859-954-95	Sequence 95, Appl
C 36	8	26.7	8	1	US-09-041-675-19	Sequence 19, Appl
C 37	8	26.7	8	1	US-09-041-675-24	Sequence 24, Appl
C 38	8	26.7	9	1	US-09-989-789-455	Sequence 455, App
C 39	8	26.7	9	1	US-09-989-789-456	Sequence 456, App
C 40	8	26.7	10	1	US-08-060-952C-9	Sequence 9, Appl
C 41	8	26.7	10	1	US-08-997-897-4	Sequence 4, Appl
C 42	8	26.7	10	1	US-09-156-836B-4	Sequence 4, Appl
C 43	8	26.7	10	1	US-08-464-011B-9	Sequence 9, Appl
C 44	8	26.7	10	1	US-09-336-946B-15	Sequence 15, Appl

ALIGNMENTS

```
RESULT 1
US-08-541-950B-17
; Sequence 17, Application US/08541950B
; Patent No. 5821046
; GENERAL INFORMATION:
; APPLICANT: KARN J, GAIT MJ, HEAPHY S, DINGWALL C
; TITLE OF INVENTION: VIRAL (HIV) GROWTH INHIBITION
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Banner & Witcoff, Ltd.
; STREET: One Financial Center, 45th Floor
; CITY: Boston
; STATE: MA
; ZIP: 02111
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage.
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Wordperfect 6.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/541,950B
; FILING DATE: 10/10/95
; PRIORITY APPLICATION DATA:
; APPLICATION NUMBER: 07/960,370
; FILING DATE: 03/19/93
; ATTORNEY/AGENT INFORMATION:
; NAME: Williams, Ph.D., Kathleen M.
; REGISTRATION NUMBER: 34,380
; REFERENCE/DOCKET NUMBER: 3777/57347 (MRC-011AX)
; TELEPHONE: (617) 345-9100
; TELECOMMUNICATION INFORMATION:
; TELEFAX: (617) 345-9111
; INFORMATION FOR SEQ ID NO: 17:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 bases
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: synthetic RNA
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 8
; OTHER INFORMATION: N is 2'-deoxythymidine
;
; US-08-541-950B-17

Query Match      48.0%  Score 14.4; DB 1; Length 17;
Best Local Similarity 76.5%  Pred No. 2, 9;
Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY      1490 AGCAGACTTCAGCAGC 1506
Db      1 AGCAGAGTUTGAGCAGC 17

RESULT 2
US-08-541-950B-20
; Sequence 20, Application US/08541950B
```

Patent No. 5821046
GENERAL INFORMATION:
APPLICANT: Kain J, Galt MJ, Heaphy S, Dingwall C
TITLE OF INVENTION: VIRAL (HIV) GROWTH INHIBITION
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Banner & Witcoff, Ltd.
STREET: One Financial Center, 45th Floor
CITY: Boston
STATE: MA
ZIP: 02111
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WordPerfect 6.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/541,950B
FILING DATE: 10/10/95
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/960,370
FILING DATE: 03/19/93
ATTORNEY/AGENT INFORMATION:
NAME: Williams, Ph.D., Kathleen M.
REGISTRATION NUMBER: 34,380
REFERENCE/DOCKET NUMBER: 3777/57347 (MRC-011AX)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 345-9100
TELEFAX: (617) 345-9111
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 17 bases
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: synthetic RNA
FEATURE:
NAME/KEY: misc_feature
LOCATION: 8
OTHER INFORMATION: N is 5-bromo-2'-deoxyuridine
US-08-541-950B-20
Query Match 48.0%; Score 14.4; DB 1; Length 17;
Best Local Similarity 76.5%; Pred. No. 2.9;
Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
QY 1490 AGCCAGACTTCAGCAGC 1506
Db 1 AGCCAGANUUGAGCAGC 17
RESULT 3
US-09-083-756A-17
Sequence 17, Application US/09083756A
Patent No. 6114109
GENERAL INFORMATION:
APPLICANT: Kain J, Galt MJ, Heaphy S, Dingwall C
TITLE OF INVENTION: VIRAL (HIV) GROWTH INHIBITION
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Banner & Witcoff, Ltd.
STREET: One Financial Center, 45th Floor
CITY: Boston
STATE: MA
ZIP: 02111
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WordPerfect 6.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/083,756A
FILING DATE:

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/541,950
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Williams, Ph.D., Kathleen M.
REGISTRATION NUMBER: 34,380
REFERENCE/DOCKET NUMBER: 3777/57347 (MRC-011AX)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 345-9100
TELEFAX: (617) 345-9111
INFORMATION FOR SEQ ID NO: 17:
SEQUENCE CHARACTERISTICS:
LENGTH: 17 bases
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: synthetic RNA
FEATURE:
NAME/KEY: misc_feature
LOCATION: 8
OTHER INFORMATION: N is 2'-deoxythymidine
US-09-083-756A-17
Query Match 48.0%; Score 14.4; DB 1; Length 17;
Best Local Similarity 76.5%; Pred. No. 2.9;
Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;
QY 1490 AGCCAGACTTCAGCAGC 1506
Db 1 AGCCAGANUUGAGCAGC 17
RESULT 4
US-09-083-756A-20
Sequence 20, Application US/09083756A
Patent No. 6114109
GENERAL INFORMATION:
APPLICANT: Kain J, Galt MJ, Heaphy S, Dingwall C
TITLE OF INVENTION: VIRAL (HIV) GROWTH INHIBITION
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Banner & Witcoff, Ltd.
STREET: One Financial Center, 45th Floor
CITY: Boston
STATE: MA
ZIP: 02111
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WordPerfect 6.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/083,756A
FILING DATE:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/541,950
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Williams, Ph.D., Kathleen M.
REGISTRATION NUMBER: 34,380
REFERENCE/DOCKET NUMBER: 3777/57347 (MRC-011AX)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 345-9100
TELEFAX: (617) 345-9111
INFORMATION FOR SEQ ID NO: 20:
SEQUENCE CHARACTERISTICS:
LENGTH: 17 bases
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: synthetic RNA
FEATURE:
NAME/KEY: misc_feature

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; LOCATION: 8
; OTHER INFORMATION: N is 5-bromo-2'-deoxyuridine
US-09-083-756A-20
Query Match 48.0%; Score 14.4; DB 1; Length 17;
Best Local Similarity 76.5%; Pred. No. 2.9;
Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1490 AGCCAGACTTCAGCAGC 1506
DB 1 AGCCAGANUDGAGCAGC 17

RESULT 5
US-08-541-950B-23
; Sequence 23, Application US/08541950B
; Patent No. 5821046
; GENERAL INFORMATION:
; APPLICANT: Karn J, Galt MJ, Heaphy S, Dingwall C
; TITLE OF INVENTION: VIRAL (HIV) GROWTH INHIBITION
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Banner & Witcoff, Ltd.
; STREET: One Financial Center, 45th Floor
; CITY: Boston
; STATE: MA
; ZIP: 02111
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Wordperfect 6.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/541,950B
; FILING DATE: 10/10/95
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/960,370
; FILING DATE: 03/19/93
; ATTORNEY/AGENT INFORMATION:
; NAME: Williams, Ph.D., Kathleen M.
; REGISTRATION NUMBER: 34,380
; REFERENCE/DOCKET NUMBER: 3777/57347 (MRC-011AX)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 345-9100
; TELEFAX: (617) 345-9111
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 bases
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: synthetic RNA
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 8
; OTHER INFORMATION: N is 4-thio-2'-deoxythymidine
US-08-541-950B-23

Query Match 48.0%; Score 14.4; DB 1; Length 18;
Best Local Similarity 76.5%; Pred. No. 3.1;
Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1490 AGCCAGACTTCAGCAGC 1506
DB 1 AGCCAGANUDGAGCAGC 17

RESULT 6
US-09-083-756A-23
; Sequence 23, Application US/09083756A
; Patent No. 6114109
; GENERAL INFORMATION:
; APPLICANT: Karn J, Galt MJ, Heaphy S, Dingwall C

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; TITLE OF INVENTION: VIRAL (HIV) GROWTH INHIBITION
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Banner & Witcoff, Ltd.
; STREET: One Financial Center, 45th Floor
; CITY: Boston
; STATE: MA
; ZIP: 02111
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Wordperfect 6.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/083,756A
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/541,950
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Williams, Ph.D., Kathleen M.
; REGISTRATION NUMBER: 34,380
; REFERENCE/DOCKET NUMBER: 3777/57347 (MRC-011AX)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 345-9100
; TELEFAX: (617) 345-9111
; INFORMATION FOR SEQ ID NO: 23:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 18 bases
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: synthetic RNA
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 8
; OTHER INFORMATION: N is 4-thio-2'-deoxythymidine
US-09-083-756A-23

Query Match 48.0%; Score 14.4; DB 1; Length 18;
Best Local Similarity 76.5%; Pred. No. 3.1;
Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1490 AGCCAGACTTCAGCAGC 1506
DB 1 AGCCAGANUDGAGCAGC 17

RESULT 7
US-09-325-601-1
; Sequence 1, Application US/09325601
; Patent No. 6573045
; GENERAL INFORMATION:
; APPLICANT: Karn
; APPLICANT: Prescott
; TITLE OF INVENTION: Methods and Kits for Discovery of RNA-Binding Compounds
; FILE REFERENCE: 3950/81235
; CURRENT APPLICATION NUMBER: US/09/325,601
; NUMBER OF SEQ ID NOS: 53
; SOFTWARE: Patentin Ver. 2.1
; SEQ ID NO: 1
; LENGTH: 17
; TYPE: RNA
; ORGANISM: Human immunodeficiency virus
US-09-325-601-1

Query Match 46.0%; Score 13.8; DB 1; Length 17;
Best Local Similarity 76.5%; Pred. No. 3.7;
Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1490 AGCCAGACTTCAGCAGC 1506
DB 1 AGCCAGANUDGAGCAGC 17

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Db 1 AGCCAGAUUUGAGCAGC 17

RESULT 8

US-08-541-950B-13
Sequence 13; Application US/08541950B
Patent No. 5821046

GENERAL INFORMATION:

APPLICANT: Karn J, Galt MJ, Heaphy S, Dingwall C
TITLE OF INVENTION: VIRAL (HIV) GROWTH INHIBITION
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:

ADDRESSEE: Banner & Witcoff, Ltd.
STREET: One Financial Center, 45th Floor
CITY: Boston
STATE: MA
ZIP: 02111

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WordPerfect 6.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/541,950B
FILING DATE: 10/10/95
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/960,370
FILING DATE: 03/19/93
ATTORNEY/AGENT INFORMATION:

NAME: Williams, Ph.D., Kathleen M.
REGISTRATION NUMBER: 34,380
REFERENCE/DOCKET NUMBER: 3777/57347 (MRC-011AX)

TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 345-9100
TELEFAX: (617) 345-9111
INFORMATION FOR SEQ ID NO: 13:

SEQUENCE CHARACTERISTICS:
LENGTH: 18 bases
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

MOLECULE TYPE: synthetic RNA
US-08-541-950B-13

Query Match 46.0%; Score 13.8; DB 1; Length 18;
Best Local Similarity 76.5%; Pred. No. 3.9;

Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1490 AGCCAGACTTCAGCAGC 1506

Db 1 AGCCAGAUUUGAGCAGC 17

RESULT 9

US-09-083-756A-13
Sequence 13; Application US/09083756A
Patent No. 6114109

GENERAL INFORMATION:

APPLICANT: Karn J, Galt MJ, Heaphy S, Dingwall C
TITLE OF INVENTION: VIRAL (HIV) GROWTH INHIBITION
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:

ADDRESSEE: Banner & Witcoff, Ltd.
STREET: One Financial Center, 45th Floor
CITY: Boston
STATE: MA
ZIP: 02111

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WordPerfect 6.1
CURRENT APPLICATION DATA:

APPLICATION NUMBER: US/09/083,756A

FILING DATE:

PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/541,950
FILING DATE:

ATTORNEY/AGENT INFORMATION:

NAME: Williams, Ph.D., Kathleen M.
REGISTRATION NUMBER: 34,380
REFERENCE/DOCKET NUMBER: 3777/57347 (MRC-011AX)

TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 345-9100
TELEFAX: (617) 345-9111
INFORMATION FOR SEQ ID NO: 13:

SEQUENCE CHARACTERISTICS:
LENGTH: 18 bases
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear

MOLECULE TYPE: synthetic RNA
US-09-083-756A-13

Query Match 46.0%; Score 13.8; DB 1; Length 18;
Best Local Similarity 76.5%; Pred. No. 3.9;

Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1490 AGCCAGACTTCAGCAGC 1506

Db 1 AGCCAGAUUUGAGCAGC 17

RESULT 10

US-09-325-601-3
Sequence 3; Application US/09325601
Patent No. 6573045

GENERAL INFORMATION:

APPLICANT: Karn
TITLE OF INVENTION: Methods and Kits for Discovery of RNA-Binding Compounds
FILE REFERENCE: 3950/81235
CURRENT APPLICATION NUMBER: US/09/325,601
CURRENT FILING DATE: 1999-06-03
NUMBER OF SEQ ID NOS: 53
SOFTWARE: Patent In Ver. 2.1
SEQ ID NO 3
LENGTH: 18
TYPE: RNA

ORGANISM: Human immunodeficiency virus
US-09-325-601-3

Query Match 46.0%; Score 13.8; DB 1; Length 18;
Best Local Similarity 76.5%; Pred. No. 3.9;

Matches 13; Conservative 2; Mismatches 2; Indels 0; Gaps 0;

QY 1490 AGCCAGACTTCAGCAGC 1506

Db 1 AGCCAGAUUUGAGCAGC 17

RESULT 11

US-08-541-950B-18
Sequence 18; Application US/08541950B
Patent No. 5821046

GENERAL INFORMATION:

APPLICANT: Karn J, Galt MJ, Heaphy S, Dingwall C
TITLE OF INVENTION: VIRAL (HIV) GROWTH INHIBITION
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:

ADDRESSEE: Banner & Witcoff, Ltd.
STREET: One Financial Center, 45th Floor
CITY: Boston
STATE: MA
ZIP: 02111

COMPUTER READABLE FORM:

MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: WordPerfect 6.1
CURRENT APPLICATION DATA:

MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Wordperfect 6.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/541,950B
 FILING DATE: 10/10/95
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/960,370
 FILING DATE: 03/19/93
 ATTORNEY/AGENT INFORMATION:
 NAME: Williams, Ph.D., Kathleen M.
 REGISTRATION NUMBER: 34,380
 REFERENCE/DOCKET NUMBER: 3777/57347 (MRC-011AX)
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617) 345-9100
 TELEFAX: (617) 345-9111
 INFORMATION FOR SEQ ID NO: 18:
 LENGTH: 17 bases
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: synthetic RNA
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: 9
 OTHER INFORMATION: N is 2'-deoxythymidine
 US-08-541-950B-18

Query Match 42.7%; Score 12.8; DB 1; Length 17;
 Best Local Similarity 76.5%; Pred. No. 5.6;
 Matches 13; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1490 AGCCAGACTTCAGCAGC 1506
 Db 1 AGCCAGATUNUGAGCAGC 17

RESULT 12
 US-08-541-950B-19
 Sequence 19, Application US/08541950B
 Patent No. 5821046
 GENERAL INFORMATION:
 APPLICANT: Karn J, Gait MJ, Heaphy S, Dingwall C
 TITLE OF INVENTION: VIRAL (HIV) GROWTH INHIBITION
 NUMBER OF SEQUENCES: 26
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Banner & Witcoff, Ltd.
 STREET: One Financial Center, 45th Floor
 CITY: Boston
 STATE: MA
 ZIP: 02111
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Wordperfect 6.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/541,950B
 FILING DATE: 10/10/95
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/960,370
 FILING DATE: 03/19/93
 ATTORNEY/AGENT INFORMATION:
 NAME: Williams, Ph.D., Kathleen M.
 REGISTRATION NUMBER: 34,380
 REFERENCE/DOCKET NUMBER: 3777/57347 (MRC-011AX)
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617) 345-9100
 TELEFAX: (617) 345-9111
 INFORMATION FOR SEQ ID NO: 19:
 SEQUENCE CHARACTERISTICS:

LENGTH: 17 bases
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: synthetic RNA
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: 10
 OTHER INFORMATION: N is 2'-deoxythymidine
 US-08-541-950B-19

Query Match 42.7%; Score 12.8; DB 1; Length 17;
 Best Local Similarity 76.5%; Pred. No. 5.6;
 Matches 13; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1490 AGCCAGACTTCAGCAGC 1506
 Db 1 AGCCAGATUNUGAGCAGC 17

RESULT 13
 US-08-541-950B-21
 Sequence 21, Application US/08541950B
 Patent No. 5821046
 GENERAL INFORMATION:
 APPLICANT: Karn J, Gait MJ, Heaphy S, Dingwall C
 TITLE OF INVENTION: VIRAL (HIV) GROWTH INHIBITION
 NUMBER OF SEQUENCES: 26
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Banner & Witcoff, Ltd.
 STREET: One Financial Center, 45th Floor
 CITY: Boston
 STATE: MA
 ZIP: 02111
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: Wordperfect 6.1
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/541,950B
 FILING DATE: 10/10/95
 PRIOR APPLICATION DATA:
 APPLICATION NUMBER: 07/960,370
 FILING DATE: 03/19/93
 ATTORNEY/AGENT INFORMATION:
 NAME: Williams, Ph.D., Kathleen M.
 REGISTRATION NUMBER: 34,380
 REFERENCE/DOCKET NUMBER: 3777/57347 (MRC-011AX)
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (617) 345-9100
 TELEFAX: (617) 345-9111
 INFORMATION FOR SEQ ID NO: 21:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 17 bases
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: synthetic RNA
 FEATURE:
 NAME/KEY: misc_feature
 LOCATION: 9
 OTHER INFORMATION: N is 5-bromo-2'-deoxyuridine
 US-08-541-950B-21

Query Match 42.7%; Score 12.8; DB 1; Length 17;
 Best Local Similarity 76.5%; Pred. No. 5.6;
 Matches 13; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1490 AGCCAGACTTCAGCAGC 1506
 Db 1 AGCCAGATUNUGAGCAGC 17

```
RESULT 14
US-08-541-950B-22
; Sequence 22, Application US/08541950B
; Patent No. 5821046
; GENERAL INFORMATION:
; APPLICANT: Karm J, Galt MJ, Heaphy S, Dingwall C
; TITLE OF INVENTION: VIRAL (HIV) GROWTH INHIBITION
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Banner & Witcoff, Ltd.
; STREET: One Financial Center, 45th Floor
; CITY: Boston
; STATE: MA
; ZIP: 02111
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: WordPerfect 6.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/541,950B
; FILING DATE: 10/10/95
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/960,370
; FILING DATE: 03/19/93
; ATTORNEY/AGENT INFORMATION:
; NAME: Williams, Ph.D., Kathleen M.
; REGISTRATION NUMBER: 34,380
; REFERENCE/DOCKET NUMBER: 3777/57347 (MRC-011AX)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 345-9100
; INFORMATION FOR SEQ ID NO: 22:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 bases
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: synthetic RNA
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 10
; OTHER INFORMATION: N is 5-bromo-2'-deoxyuridine
; US-08-541-950B-22
Query Match 42.7%; Score 12.8; DB 1; Length 17;
Best Local Similarity 76.5%; Pred. No. 5.6;
Matches 13; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1490 AGCCAGACTTCAGCAGC 1506
Db 1 AGCCAGATUNGCAGCAGC 17

RESULT 15
US-09-083-756A-18
; Sequence 18, Application US/09083756A
; Patent No. 6114109
; GENERAL INFORMATION:
; APPLICANT: Karm J, Galt MJ, Heaphy S, Dingwall C
; TITLE OF INVENTION: VIRAL (HIV) GROWTH INHIBITION
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Banner & Witcoff, Ltd.
; STREET: One Financial Center, 45th Floor
; CITY: Boston
; STATE: MA
; ZIP: 02111
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
; OPERATING SYSTEM: IBM PC compatible
; SOFTWARE: WordPerfect 6.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/083,756A
; FILING DATE: 08/541,950
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/541,950
; FILING DATE: 08/541,950
; ATTORNEY/AGENT INFORMATION:
; NAME: Williams, Ph.D., Kathleen M.
; REGISTRATION NUMBER: 34,380
; REFERENCE/DOCKET NUMBER: 3777/57347 (MRC-011AX)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 345-9100
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 bases
; TYPE: nucleic acid
; STRANDEDNESS: single
```

```
SOFTWARE: WordPerfect 6.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/083,756A
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/541,950
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Williams, Ph.D., Kathleen M.
; REGISTRATION NUMBER: 34,380
; REFERENCE/DOCKET NUMBER: 3777/57347 (MRC-011AX)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 345-9100
; INFORMATION FOR SEQ ID NO: 18:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 bases
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: synthetic RNA
; FEATURE:
; NAME/KEY: misc_feature
; LOCATION: 9
; OTHER INFORMATION: N is 2'-deoxythymidine
; US-09-083-756A-18
Query Match 42.7%; Score 12.8; DB 1; Length 17;
Best Local Similarity 76.5%; Pred. No. 5.6;
Matches 13; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1490 AGCCAGACTTCAGCAGC 1506
Db 1 AGCCAGATUNGCAGCAGC 17

RESULT 16
US-09-083-756A-19
; Sequence 19, Application US/09083756A
; Patent No. 6114109
; GENERAL INFORMATION:
; APPLICANT: Karm J, Galt MJ, Heaphy S, Dingwall C
; TITLE OF INVENTION: VIRAL (HIV) GROWTH INHIBITION
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESSES:
; ADDRESSEE: Banner & Witcoff, Ltd.
; STREET: One Financial Center, 45th Floor
; CITY: Boston
; STATE: MA
; ZIP: 02111
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
; OPERATING SYSTEM: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: WordPerfect 6.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/09/083,756A
; FILING DATE:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/541,950
; FILING DATE:
; ATTORNEY/AGENT INFORMATION:
; NAME: Williams, Ph.D., Kathleen M.
; REGISTRATION NUMBER: 34,380
; REFERENCE/DOCKET NUMBER: 3777/57347 (MRC-011AX)
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (617) 345-9100
; INFORMATION FOR SEQ ID NO: 19:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 17 bases
; TYPE: nucleic acid
; STRANDEDNESS: single
```


TOPOLOGY: linear
MOLECULE TYPE: synthetic RNA
FEATURE:
NAME/KEY: misc_feature
LOCATION: 10
OTHER INFORMATION: N is 2'-deoxythymidine
US-09-083-756A-19

Query Match 42.7%; Score 12.8; DB 1; Length 17;
Best Local Similarity 76.5%; Pred. No. 5.6;
Matches 13; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1490 AGCCAGACTTCAGCAGC 1506
Db 1 AGCCAGAGUNNGAGCAGC 17

RESULT 17

US-09-083-756A-21
Sequence 21, Application US/09083756A
Patent No. 6114109

GENERAL INFORMATION:
APPLICANT: Karn J, Galt MJ, Heaphy S, Dingwall C
TITLE OF INVENTION: VIRAL (HIV) GROWTH INHIBITION
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Banner & Witcoff, Ltd.
STREET: One Financial Center, 45th Floor
CITY: Boston
STATE: MA
ZIP: 02111

COMPUTER READABLE FORM:
MEDIUM TYPE: diskette, 3.50 inch, 1.44 Mb storage
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Wordperfect 6.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/083,756A
FILING DATE:
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: 08/541,950
FILING DATE:

ATTORNEY/AGENT INFORMATION:
NAME: Williams, Ph.D., Kathleen M.
REGISTRATION NUMBER: 34,380
REFERENCE/DOCKET NUMBER: 3777/57347 (MRC-011AX)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 345-9100
TELEFAX: (617) 345-9111
INFORMATION FOR SEQ ID NO: 21:
SEQUENCE CHARACTERISTICS:
LENGTH: 17 bases
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: synthetic RNA
FEATURE:
NAME/KEY: misc_feature
LOCATION: 9
OTHER INFORMATION: N is 5-bromo-2'-deoxyuridine
US-09-083-756A-21

Query Match 42.7%; Score 12.8; DB 1; Length 17;
Best Local Similarity 76.5%; Pred. No. 5.6;
Matches 13; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1490 AGCCAGACTTCAGCAGC 1506
Db 1 AGCCAGAGUNNGAGCAGC 17

RESULT 18

US-09-083-756A-22

Sequence 22, Application US/09083756A
Patent No. 6114109
GENERAL INFORMATION:
APPLICANT: Karn J, Galt MJ, Heaphy S, Dingwall C
TITLE OF INVENTION: VIRAL (HIV) GROWTH INHIBITION
NUMBER OF SEQUENCES: 26
CORRESPONDENCE ADDRESS:
ADDRESSEE: Banner & Witcoff, Ltd.
STREET: One Financial Center, 45th Floor
CITY: Boston
STATE: MA
ZIP: 02111

COMPUTER READABLE FORM:
MEDIUM TYPE: diskette, 3.50 inch, 1.44 Mb storage
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Wordperfect 6.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/083,756A
FILING DATE:
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: 08/541,950
FILING DATE:

ATTORNEY/AGENT INFORMATION:
NAME: Williams, Ph.D., Kathleen M.
REGISTRATION NUMBER: 34,380
REFERENCE/DOCKET NUMBER: 3777/57347 (MRC-011AX)
TELECOMMUNICATION INFORMATION:
TELEPHONE: (617) 345-9100
TELEFAX: (617) 345-9111
INFORMATION FOR SEQ ID NO: 22:
SEQUENCE CHARACTERISTICS:
LENGTH: 17 bases
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: synthetic RNA
FEATURE:
NAME/KEY: misc_feature
LOCATION: 10
OTHER INFORMATION: N is 5-bromo-2'-deoxyuridine
US-09-083-756A-22

Query Match 42.7%; Score 12.8; DB 1; Length 17;
Best Local Similarity 76.5%; Pred. No. 5.6;
Matches 13; Conservative 1; Mismatches 3; Indels 0; Gaps 0;

QY 1490 AGCCAGACTTCAGCAGC 1506
Db 1 AGCCAGAGUNNGAGCAGC 17

RESULT 19
US-08-363-240A-47/C
Sequence 47, Application US/08363240A
Patent No. 5705388

GENERAL INFORMATION:
APPLICANT: Couture, Larry
APPLICANT: McSwigen, James
APPLICANT: Bisgaler, Charles
APPLICANT: Pape, Michael
TITLE OF INVENTION: METHOD AND REAGENT FOR
TITLE OF INVENTION: PREVENTION, INHIBITION OF
TITLE OF INVENTION: PROGRESSION AND REGRESSION
TITLE OF INVENTION: OF VASCULAR DISEASES
NUMBER OF SEQUENCES: 1243
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
CITY: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.

```
ZIP: 90071
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/363,240A
FILING DATE: December 23, 1994
PRIOR APPLICATION DATA:
APPLICATION NUMBER:
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 210/096
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 47:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-363-240A-47
```

```
Query Match 39.3%; Score 11.8; DB 1; Length 15;
Best Local Similarity 86.7%; Pred. No. 7.4;
Matches 13; Conservative 0; Mismatches 2; Indels 0; Gaps 0;
```

```
QY 1488 GAAGCAGACTTCAG 1502
DB 15 GTAGCCTACTTCAG 1
```

```
RESULT 20
US-08-050-073-65/c
Sequence 65, Application US/08050073
Patent No. 5567809
GENERAL INFORMATION:
APPLICANT: Apple, Raymond J.
APPLICANT: Begovich, Ann B.
APPLICANT: Bugawan, Teodorica L.
APPLICANT: Erlich, Henry A.
APPLICANT: Griffith, Robert L.
APPLICANT: Schart, Stephen J.
TITLE OF INVENTION: Methods and Reagents for HLA DRbeta DNA
TITLE OF INVENTION: Typing
NUMBER OF SEQUENCES: 315
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hoffmann-La Roche Inc.
STREET: 340 Kingsland Street
CITY: Nutley
STATE: New Jersey
COUNTRY: U.S.A.
ZIP: 07110
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/050,073
FILING DATE:
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Peety, Douglas A.
REGISTRATION NUMBER: 35,321
REFERENCE/DOCKET NUMBER: 8769
TELECOMMUNICATION INFORMATION:
```

```
TELEPHONE: (510) 814-2974
TELEFAX: (510) 814-2977
INFORMATION FOR SEQ ID NO: 65:
SEQUENCE CHARACTERISTICS:
LENGTH: 15 base pairs
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: genomic DNA
US-08-050-073-65
```

```
Query Match 33.0%; Score 11.4; DB 1; Length 15;
Best Local Similarity 92.3%; Pred. No. 8.7;
Matches 12; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1494 AGACTTCAGCAGC 1506
DB 15 AGACTTACGAGC 3
```

```
RESULT 21
US-09-281-418-65/c
Sequence 65, Application US/09281418
Patent No. 6287769
GENERAL INFORMATION:
APPLICANT: Inoue, Takakazu
TITLE OF INVENTION: Method of Amplifying DNA Fragment, Apparatus for Amplifying DNA Fragment, Method of Assaying Microorganisms, Method of Analyzing Microorganisms
TITLE OF INVENTION: Assay, Method of Assaying Microorganisms, Method of Analyzing Microorganisms
FILE REFERENCE: 9982-7
CURRENT APPLICATION NUMBER: US/09/281,418
CURRENT FILING DATE: 1999-03-30
EARLIER APPLICATION NUMBER: JP/1998/87651
EARLIER FILING DATE: 1998-03-31
EARLIER APPLICATION NUMBER: JP/1999/69694
EARLIER FILING DATE: 1999-03-16
NUMBER OF SEQ ID NOS: 216
SEQ ID NO 65
LENGTH: 12
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Primer
US-09-281-418-65
```

```
Query Match 31.3%; Score 9.4; DB 1; Length 12;
Best Local Similarity 90.3%; Pred. No. 16;
Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
```

```
QY 1484 CCAAGAGCCA 1494
DB 11 CCAAGAGCCA 1
```

```
RESULT 22
US-09-508-753B-25/c
Sequence 25, Application US/09508753B
Patent No. 6544736
GENERAL INFORMATION:
APPLICANT: Akira, SHIMANOTO
APPLICANT: Yasuhiro FURUTCHI
APPLICANT: Yuko SHIBATA
APPLICANT: Hiroyo FUNAKI
APPLICANT: Eiji OHARA
APPLICANT: Masanori WATAHITI
TITLE OF INVENTION: Method for Synthesizing cDNA from mRNA sample
FILE REFERENCE: 00162/HG
CURRENT APPLICATION NUMBER: US/09/508,753B
CURRENT FILING DATE: 2000-06-16
PRIOR APPLICATION NUMBER: JP 9/270324
PRIOR FILING DATE: 1997-09-18
NUMBER OF SEQ ID NOS: 172
SEQ ID NO 25
```

```

; LENGTH: 10
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Primer
US-09-508-753B-25

```

```

Query Match
Best Local Similarity 30.0%; Score 9; DB 1; Length 10;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

```

```

QY 1497 CTTGACGAG 1505
Db 10 CTTGACGAG 2

```

```

RESULT 23
US-09-263-790-36
; Sequence 36, Application US/09263790
; Patent No. Pp12997
; GENERAL INFORMATION:
; APPLICANT: Nirmal Kumar PATRA et al.
; TITLE OF INVENTION: JAL PALLAVI, WATER LOGGING TOLERANT CYMOPOGON WINTERIANUS
; FILE REFERENCE: 2761-0120P
; CURRENT APPLICATION NUMBER: US/09/263,790
; CURRENT FILING DATE: 1999-03-05
; NUMBER OF SEQ ID NOS: 38
; SOFTWARE: Patentin version 3.0
; SEQ ID NO 36
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Artificial
; FEATURE:
; OTHER INFORMATION: OPT 18 Primer - Used to develop the unique RAPD profiles of the
US-09-263-790-36

```

```

Query Match
Best Local Similarity 28.0%; Score 8.4; DB 1; Length 10;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY 1488 GAAGCCAGAC 1497
Db 1 GATGCCAGAC 10

```

```

RESULT 24
US-09-721-777-18
; Sequence 18, Application US/09721777
; Patent No. Pp13279
; GENERAL INFORMATION:
; APPLICANT: Khanuja, Sunan Preet Singh
; APPLICANT: Kumar, Sushil
; APPLICANT: Shasany, Ajit Kumar
; APPLICANT: Dhawan, Sunilta
; APPLICANT: Darokar, Mahendra Pandurang
; APPLICANT: Nagvi, Ali Arif
; APPLICANT: Dhawan, Om Parkash
; APPLICANT: Singh, Anil Kumar
; APPLICANT: Patra, Nirmal Kumar
; APPLICANT: Bahl, Janak Raj
; APPLICANT: Bansal, Ram Prakash
; TITLE OF INVENTION: Mint Plant Named Sakeham
; FILE REFERENCE: 033166-002
; CURRENT APPLICATION NUMBER: US/09/721,777
; CURRENT FILING DATE: 2000-11-27
; NUMBER OF SEQ ID NOS: 20
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 18
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:

```

```

; OTHER INFORMATION: OPT primer
US-09-721-777-18

```

```

Query Match
Best Local Similarity 28.0%; Score 8.4; DB 1; Length 10;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY 1488 GAAGCCAGAC 1497
Db 1 GATGCCAGAC 10

```

```

RESULT 25
US-08-545-253A-20
; Sequence 20, Application US/08545253A
; Patent No. 5908978
; GENERAL INFORMATION:
; APPLICANT: O'Malley, David M.
; APPLICANT: Sederoff, Ronald R.
; APPLICANT: Gratiapaglia, Dario
; APPLICANT: Henry V. Amerson
; APPLICANT: Phillip Wilcox
; APPLICANT: E. George Kuhlman
; TITLE OF INVENTION: METHODS FOR WITHIN FAMILY
; TITLE OF INVENTION: SELECTION IN
; NUMBER OF SEQUENCES: 26
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Kenneth D. Sibley
; STREET: Post Office Drawer 34009
; CITY: Charlotte
; STATE: No. 5908978ch Carolina
; COUNTRY: U.S.A.
; ZIP: 28234
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Patentin Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/545,253A
; FILING DATE:
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Sibley, Kenneth D.
; REGISTRATION NUMBER: 31,665
; REFERENCE/DOCKET NUMBER: 5051-281
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (919) 881-3140
; TELEFAX: (919) 881-3175
; TELEEX: 575102
; INFORMATION FOR SEQ ID NO: 20:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; MOLECULE TYPE: cDNA
US-08-545-253A-20

```

```

Query Match
Best Local Similarity 28.0%; Score 8.4; DB 1; Length 10;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

```

```

QY 1488 GAAGCCAGAC 1497
Db 1 GAAGCCAGCC 10

```

```

RESULT 26
US-08-719-337-20
; Sequence 20, Application US/08719337
; Patent No. 6054634

```


Query Match 28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 20;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1498 TTCGACGCC 1507
DB 10 TTCTGACGCC 1

RESULT 29
US-09-508-753B-28
; Sequence 28, Application US/09508753B
; Patent No. 6544736
; GENERAL INFORMATION:
; APPLICANT: AKIRA SHIMAMOTO
; APPLICANT: YASUHIRO FURUICHI
; APPLICANT: YUKO SHIBATA
; APPLICANT: HIROKO FUNAKI
; APPLICANT: Eiji OHARA
; TITLE OF INVENTION: Method for Synthesizing cDNA from mRNA sample
; FILE REFERENCE: 00162/HG
; CURRENT APPLICATION NUMBER: US/09/508,753B
; CURRENT FILING DATE: 2000-06-16
; PRIOR APPLICATION NUMBER: JP 9/270324
; PRIOR FILING DATE: 1997-09-18
; NUMBER OF SEQ ID NOS: 472
; SEQ ID NO 28
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Primer
US-09-508-753B-28

Query Match 28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 20;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1496 ACTTCAGCAG 1505
DB 1 ACATCAGCAG 10

RESULT 30
US-09-508-753B-63/C
; Sequence 63, Application US/09508753B
; Patent No. 6544736
; GENERAL INFORMATION:
; APPLICANT: AKIRA SHIMAMOTO
; APPLICANT: YASUHIRO FURUICHI
; APPLICANT: YUKO SHIBATA
; APPLICANT: HIROKO FUNAKI
; APPLICANT: Eiji OHARA
; APPLICANT: Masahori WATAHUKI
; TITLE OF INVENTION: Method for Synthesizing cDNA from mRNA sample
; FILE REFERENCE: 00162/HG
; CURRENT APPLICATION NUMBER: US/09/508,753B
; CURRENT FILING DATE: 2000-06-16
; PRIOR APPLICATION NUMBER: JP 9/270324
; PRIOR FILING DATE: 1997-09-18
; NUMBER OF SEQ ID NOS: 472
; SEQ ID NO 63
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Primer
US-09-508-753B-63

Query Match 28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 20;

Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;
QY 1495 GACTTCAGCA 1504
DB 10 GACTTCAGCA 1

RESULT 31
US-08-894-454-110
; Sequence 110, Application US/08894454
; Patent No. 6544784
; GENERAL INFORMATION:
; APPLICANT: VAN DEN VEN, W.J.M.
; APPLICANT: SCHOENMAKERS, H.F.P.M.
; TITLE OF INVENTION: MULTIPLE-TUMOR ABERRENT GROWTH
; TITLE OF INVENTION: GENES
; NUMBER OF SEQUENCES: 164
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: The Webb Law Firm
; STREET: 700 Koppers Building, 436 Seventh Avenue
; CITY: Pittsburgh
; STATE: PA
; COUNTRY: USA
; ZIP: 15219-1818
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS
; SOFTWARE: FastSeq for Windows Version 2.0
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/894,454
; FILING DATE: 15-AUG-1997
; CLASSIFICATION: 424
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: PCT/EP/00716
; FILING DATE: 19-FEB-1996
; APPLICATION NUMBER: 95200390.3
; FILING DATE: 17-FEB-1995
; APPLICATION NUMBER: 95201951.1
; FILING DATE: 14-JUL-1995
; ATTORNEY/AGENT INFORMATION:
; NAME: Johnson, Barbara E
; REGISTRATION NUMBER: 31,198
; REFERENCE/DOCKET NUMBER: 702-971100
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 412-471-8815
; TELEFAX: 412-471-4094
; TELEX:
; INFORMATION FOR SEQ ID NO: 110:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
US-08-894-454-110

Query Match 28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 20;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1486 AAGAAGCAG 1495
DB 1 AAGAAGCAG 10

RESULT 32
US-09-758-073-6
; Sequence 6, Application US/09758073
; Patent No. 6610487
; GENERAL INFORMATION:
; APPLICANT: Keinath, et al.
; TITLE OF INVENTION: Method of Diagnosing Gumy Stem Blight in
; TITLE OF INVENTION: Plants Using a Polymerase Chain Reaction Assay

NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: Judy C. Jarecki-Black, Ph.D.
ADDRESSEE: Dorley & Manning, P.A.
STREET: 700 E. No. 6610487th Street, Suite 15
CITY: Greenville
STATE: South Carolina
COUNTRY: USA
ZIP: 29601
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
COMPUTER: IBM compatible
OPERATING SYSTEM: MS Dos; Windows 95
SOFTWARE: Wordperfect 6.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/758,073
FILING DATE: Filed Herewith
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/078,103
FILING DATE: 16-MAR-1998
ATTORNEY/AGENT INFORMATION:
NAME: Judy C. Jarecki-Black, Ph.D.
REGISTRATION NUMBER: PA4,170
REFERENCE/DOCKET NUMBER: CXU-291
TELECOMMUNICATION INFORMATION:
TELEPHONE: (864) 233-7342
TELEFAX: (864) 233-7342
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 Pairs
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: Other Nucleic Acid
DESCRIPTION: Oligonucleotide Primer
HYPOTHETICAL: No
ANTI-SENSE: No
ORIGINAL SOURCE: Operon Technologies (Alameda, CA)
IMMEDIATE SOURCE: Operon Technologies
POSITION IN GENOME: No. 6610487 Applicable
UNITS:
FEATURE:
OTHER INFORMATION: Commercially Available Primer
PUBLICATION INFORMATION: No. 6610487 Applicable
US-09-758-073-6
Query Match 28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 20;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1488 GAAGCCAGAC 1497
DB 1 GATGCCAGAC 10

RESULT 33
US-08-173-489C-342/c
Sequence 342, Application US/08173489C
Patent No. 5861244
GENERAL INFORMATION:
APPLICANT: WANG, C.-G.
APPLICANT: HEPBURN, A. G.
TITLE OF INVENTION: GENETIC SEQUENCE ASSAY USING DNA
TITLE OF INVENTION: TRIPLE-STRAND FORMATION.
NUMBER OF SEQUENCES: 365
CORRESPONDENCE ADDRESS:
ADDRESSEE: PROFILE DIAGNOSTIC SCIENCES, INC.,
STREET: 510 EAST 73RD STREET,
CITY: NEW YORK
STATE: NEW YORK
COUNTRY: USA
ZIP: 10021.

COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5 inch, 1.44Mb storage
COMPUTER: IBM PC/XT/AT
OPERATING SYSTEM: MS-DOS version 6.2
SOFTWARE: Wordperfect Version 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/173,489C
FILING DATE: 22 DEC 1993
CLASSIFICATION: 415
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US 07/968,436
FILING DATE: 29 OCT 1992
ATTORNEY/AGENT INFORMATION:
NAME: Handelman, Joseph H.
REGISTRATION NUMBER: 26,179
REFERENCE/DOCKET NUMBER: U9518-6
TELECOMMUNICATION INFORMATION:
TELEPHONE: (attorney) (212) 708-1880
TELEFAX: (attorney) (212) 246-8959
INFORMATION FOR SEQ ID NO: 342:
SEQUENCE CHARACTERISTICS:
LENGTH: 11 bases
TYPE: nucleic acid
STRANDEDNESS: single stranded
TOPOLOGY: linear
MOLECULE TYPE: other: nucleic acid
DESCRIPTION: third strand derived from P. cepacea
DESCRIPTION: 16s region in Seq ID No. 5861244341
HYPOTHETICAL: Yes
ANTI-SENSE: no
PUBLICATION INFORMATION:
RELEVANT RESIDUES IN SEQ ID NO: 342 :FROM 1 TO 11
US-08-173-489C-342
Query Match 28.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 21;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1482 GACCAGAG 1491
DB 11 GAACAGAG 2

RESULT 34
US-09-862-847-15/c
Sequence 15, Application US/09862847
Patent No. 6593111
GENERAL INFORMATION:
APPLICANT: Batig, Ralph S.
APPLICANT: Boyd, Yonac
TITLE OF INVENTION: DIRECTION ASSEMBLY OF LARGE VIRAL GENOMES AND CHROMOSOMES
FILE REFERENCE: 5470.270
CURRENT APPLICATION NUMBER: US/09/862,847
CURRENT FILING DATE: 2001-05-21
PRIOR APPLICATION NUMBER: US 60/206,537
PRIOR FILING DATE: 2000-05-21
PRIOR APPLICATION NUMBER: US 60/285,320
PRIOR FILING DATE: 2001-04-20
NUMBER OF SEQ ID NOS: 24
SOFTWARE: PatentIn version 3.1
SEQ ID NO 15
LENGTH: 11
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Synthetic oligonucleotide primer.
US-09-862-847-15
Query Match 28.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 21;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1484 CCAAGAGCC 1493

Db 10 CCAGAGGC 1

RESULT 35
US-08-859-954-95/c

; Sequence 95, Application US/08859954
; Patent No. 6083695

; GENERAL INFORMATION:

; APPLICANT: Hardin, Susan H.

; APPLICANT: Homayouni, Ramin

; TITLE OF INVENTION: Design and Optimized Primer Library for

; TITLE OF INVENTION: Gene Sequencing and Method Thereof

; NUMBER OF SEQUENCES: 566

; CORRESPONDENCE ADDRESS:

; ADDRESSEE: Fulbright & Jaworski L.L.P.

; STREET: 1301 McKinney, Suite 5100

; CITY: Houston

; STATE: Texas

; COUNTRY: U.S.A.

; ZIP: 77010-3095

; COMPUTER READABLE FORM:

; MEDIUM TYPE: Floppy disk

; COMPUTER: IBM PC compatible

; OPERATING SYSTEM: PC-DOS/MS-DOS

; SOFTWARE: PatentIn Release #1.0, Version #1.30

; CURRENT APPLICATION DATA:

; APPLICATION NUMBER: US/08/859,954

; FILING DATE:

; CLASSIFICATION:

; PRIORITY APPLICATION DATA:

; APPLICATION NUMBER: 08/632,782

; FILING DATE:

; ATTORNEY/AGENT INFORMATION:

; NAME: Paul, Thomas D.

; REGISTRATION NUMBER: 32,714

; REFERENCE/DOCKET NUMBER: D-5900

; TELECOMMUNICATION INFORMATION:

; TELEPHONE: 713/651-5325

; TELEFAX: 713/651-5246

; INFORMATION FOR SEQ ID NO: 95:

; SEQUENCE CHARACTERISTICS:

; LENGTH: 8 base pairs

; TYPE: nucleic acid

; STRANDEDNESS: single

; TOPOLOGY: linear

; MOLECULE TYPE: other nucleic acid

; DESCRIPTION: /desc = "oligonucleotide"

; HYPOTHETICAL: YES

; ANTI-SENSE: YES

US-08-859-954-95

Query Match

Best Local Similarity 26.7%; Score 8; DB 1; Length 8;

Matches 8; Conservative 100.0%; Pred. No. 1.3e+02;

Mismatches 0; Indels 0; Gaps 0;

QY 1496 ACTTCAGC 1503

Db 8 ACTTCAGC 1

RESULT 36

US-09-041-675-19/c

; Sequence 19, Application US/09041675A

; Patent No. 6100032

; GENERAL INFORMATION:

; APPLICANT: Kern, Scott

; APPLICANT: Zewel, Leigh

; APPLICANT: Dai, Jia Le

; APPLICANT: Vogelstein, Bert

; APPLICANT: Kinzler, Kenneth

; TITLE OF INVENTION: Human SMAD3 and SMAD4 are

; TITLE OF INVENTION: sequence-specific transcription activators

; FILE REFERENCE: 01107.74098

; CURRENT APPLICATION NUMBER: US/09/041,675A

; CURRENT FILING DATE: 1998-03-13

; NUMBER OF SEQ ID NOS: 27

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 19

; LENGTH: 8

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: synthetic random oligonucleotides selected for

; OTHER INFORMATION: binding to human SMAD3 or human SMAD4

US-09-041-675-19

Query Match 26.7%; Score 8; DB 1; Length 8;

Best Local Similarity 100.0%; Pred. No. 1.3e+02;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1490 AGCCAGAC 1497

Db 8 AGCCAGAC 1

RESULT 37

US-09-041-675-24/c

; Sequence 24, Application US/09041675A

; Patent No. 6100032

; GENERAL INFORMATION:

; APPLICANT: Kern, Scott

; APPLICANT: Zewel, Leigh

; APPLICANT: Dai, Jia Le

; APPLICANT: Vogelstein, Bert

; TITLE OF INVENTION: Human SMAD3 and SMAD4 are

; TITLE OF INVENTION: sequence-specific transcription activators

; FILE REFERENCE: 01107.74098

; CURRENT APPLICATION NUMBER: US/09/041,675A

; CURRENT FILING DATE: 1998-03-13

; NUMBER OF SEQ ID NOS: 27

; SOFTWARE: FastSeq for Windows Version 3.0

; SEQ ID NO 24

; LENGTH: 8

; TYPE: DNA

; ORGANISM: Artificial Sequence

; FEATURE:

; OTHER INFORMATION: synthetic random oligonucleotides selected for

; OTHER INFORMATION: binding to human SMAD3 or human SMAD4

US-09-041-675-24

Query Match 26.7%; Score 8; DB 1; Length 8;

Best Local Similarity 100.0%; Pred. No. 1.3e+02;

Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1490 AGCCAGAC 1497

Db 8 AGCCAGAC 1

RESULT 38

US-09-989-789-455/c

; Sequence 455, Application US/09989789

; Patent No. 6588746

; GENERAL INFORMATION:

; APPLICANT: Liu, Qiang

; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE

; TITLE OF INVENTION: TRIPLETS BY ZINC FINGERS

; FILE REFERENCE: 8325-0011.20 / S11-1152

; CURRENT APPLICATION NUMBER: US/09/989,789

; CURRENT FILING DATE: 2002-03-25

; NUMBER OF SEQ ID NOS: 4085

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 455

LENGTH: 9
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example target
US-09-989-789-455

Query Match 26.7%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.2e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1493 CAGACTTC 1500
DB 8 CAGACTTC 1

RESULT 39
US-09-989-789-456/c
Sequence 456, Application US/09989789
Patent No. 6588746
GENERAL INFORMATION:
APPLICANT: LIU, Qiang
TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
FILE REFERENCE: 8325-0011.20 / S11-US2
CURRENT APPLICATION NUMBER: US/09/989,789
CURRENT FILING DATE: 2002-03-25
NUMBER OF SEQ ID NOS: 4085
SOFTWARE: Patentm Ver. 2.0
SEQ ID NO 456
LENGTH: 9
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example target
US-09-989-789-456

Query Match 26.7%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 1.2e+02;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1493 CAGACTTC 1500
DB 8 CAGACTTC 1

RESULT 40
US-08-060-952C-9/c
Sequence 9, Application US/08060952C
Patent No. 5695932
GENERAL INFORMATION:
APPLICANT: Michael D. West
APPLICANT: Jerry W. Shay
APPLICANT: Woodring E. Wright
APPLICANT: Elizabeth Blackburn
TITLE OF INVENTION: THERAPY AND DIAGNOSIS OF CONDITIONS
TITLE OF INVENTION: RELATED TO TELOMERE LENGTH AND/OR
TITLE OF INVENTION: TELOMERASE ACTIVITY
NUMBER OF SEQUENCES: 57
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM Compatible

OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/060,952C
FILING DATE: May 13, 1993
CLASSIFICATION: 514
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 07/882,438
FILING DATE: May 13, 1992
APPLICATION NUMBER: 08/038,766
FILING DATE: March 24, 1993
ATTORNEY/AGENT INFORMATION:
NAME: Warburg, Richard J.
REGISTRATION NUMBER: 32,327
REFERENCE/DOCKET NUMBER: 202/045
TELECOMMUNICATION INFORMATION:
TELEPHONE: (213) 489-1600
TELEFAX: (213) 955-0440
TELEX: 67-3510
INFORMATION FOR SEQ ID NO: 9:
SEQUENCE CHARACTERISTICS:
LENGTH: 10
TYPE: nucleic acid
STRANDEDNESS: single
TOPOLOGY: linear
US-08-060-952C-9

Query Match 26.7%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 23;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1483 ACCAAGAA 1450
DB 8 ACCAAGAA 1

RESULT 41
US-08-997-897-4
Sequence 4, Application US/08997897C
Patent No. 6114514
GENERAL INFORMATION:
APPLICANT: SRIVASTAVA, RANJANA
APPLICANT: KUMAR, DEEPAK
APPLICANT: SRIVASTAVA, BRAHM SHANKER
TITLE OF INVENTION: MYCOBACTERIUM TUBERCULOSIS SPECIFIC DNA FRAGMENT
FILE REFERENCE: u011469-7
CURRENT APPLICATION NUMBER: US/08/997,897C
CURRENT FILING DATE: 1997-12-24
NUMBER OF SEQ ID NOS: 7
SOFTWARE: Patentm Ver. 2.0
SEQ ID NO 4
LENGTH: 10
TYPE: DNA
ORGANISM: Mycobacterium tuberculosis
US-08-997-897-4

Query Match 26.7%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 23;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1486 AACGAAGC 1493
DB 3 AACGAAGC 10

RESULT 42
US-09-156-836B-4
Sequence 4, Application US/09156836B
Patent No. 6242585
GENERAL INFORMATION:
APPLICANT: Srivastava, Ranjana
APPLICANT: Kumar, Deepak
APPLICANT: Srivastava, Brahm Shanker


```

; TITLE OF INVENTION: MYCOBACTERIUM TUBERCULOSIS SPECIFIC DNA FRAGMENT
; FILE REFERENCE: U 011876-4
; CURRENT APPLICATION NUMBER: US/09/156,836B
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 08/997,897
; PRIOR FILING DATE: 1997-12-24
; NUMBER OF SEQ ID NOS: 7
; SOFTWARE: Patent In Ver. 2.0
; SEQ ID NO 4
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; US-09-156-836B-4

Query Match
Best Local Similarity 100.0%; Pred. No. 23;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1486 AGGAGCC 1493
Db 3 AGGAGCC 10

RESULT 43
US-08-464-011B-9/c
; Sequence 9, Application US/08464011B
; Patent No. 6368789
; GENERAL INFORMATION:
; APPLICANT: Michael D. West
; Jerry W. Shay
; Woodling E. Wright
; TITLE OF INVENTION: THERAPY AND DIAGNOSIS OF CONDITIONS
; RELATED TO TELOMERASE LENGTH AND/OR
; TELOMERASE ACTIVITY
; NUMBER OF SEQUENCES: 61
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Lyon & Lyon
; STREET: 633 West Fifth Street
; Suite 4700
; CITY: Los Angeles
; STATE: California
; COUNTRY: U.S.A.
; ZIP: 90071-2066
; COMPUTER READABLE FORM:
; MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: IBM P.C. DOS 5.0
; SOFTWARE: Word Perfect 5.1
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/464,011B
; FILING DATE: 05-Jun-1995
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 07/882,438
; FILING DATE: May 13, 1992
; APPLICATION NUMBER: 08/038,766
; FILING DATE: March 24, 1993
; APPLICATION NUMBER: 08/060,952
; FILING DATE: May 13, 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Maiburg, Richard J.
; REGISTRATION NUMBER: 33,337
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10
; TYPE: nucleic acid
; STRANDEDNESS: single

```

```

; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 9:
; US-08-464-011B-9

Query Match
Best Local Similarity 100.0%; Pred. No. 23;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1483 ACCAGAA 1490
Db 8 ACCAGAA 1

RESULT 44
US-09-336-946B-15
; Sequence 15, Application US/09336946B
; Patent No. 6479731
; GENERAL INFORMATION:
; APPLICANT: Valant, Barbara S.
; APPLICANT: Bryan, Gregory
; APPLICANT: E. I. du Pont de Nemours and Company
; TITLE OF INVENTION: A PL-TA GENE CONFERRING DISEASE RESISTANCE TO PLANTS
; FILE REFERENCE: BB-1136
; CURRENT APPLICATION NUMBER: US/09/336,946B
; CURRENT FILING DATE: 1999-06-21
; PRIOR APPLICATION NUMBER: 60/095229
; PRIOR FILING DATE: 1998-08-04
; NUMBER OF SEQ ID NOS: 74
; SOFTWARE: Microsoft Office 97
; SEQ ID NO 15
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Synthetic oligonucleotide
; US-09-336-946B-15

Query Match
Best Local Similarity 100.0%; Pred. No. 23;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1490 AGCCAGAC 1497
Db 2 AGCCAGAC 9

Search completed: April 15, 2004, 16:36:47
Job time : 0.001 secs

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GenCore version 5.1.6
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OM nucleic - nucleic search, using sw model

Run on: April 15, 2004, 16:38:43 ; Search time 0.001 Seconds
(without alignments)
30.420 Million cell updates/sec

Title: US-09-954-556-3
Perfect score: 30
Sequence: 1 cagcaccgaagcagcagctcagcagcca 30

Scoring table: IDENTITY_NUC
Gapop 10.0, Gapext 0.5

Searched: 43 seqs, 507 residues

Total number of hits satisfying chosen parameters: 86

Minimum DB seq length: 8
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 44 summaries

Database: rnpb.seq.*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
C 1	20	66.7	20	1 US-09-954-556-65	Sequence 65, App1
C 2	20	66.7	20	1 US-09-954-556-66	Sequence 66, App1
C 3	20	66.7	20	1 US-09-954-556-67	Sequence 67, App1
C 4	13.8	46.0	17	1 US-10-307-005-1799	Sequence 1799, Ap
C 5	13.8	46.0	17	1 US-10-307-005-1800	Sequence 1800, Ap
C 6	13.8	46.0	18	1 US-10-004-551-40	Sequence 40, App1
C 7	13.8	46.0	18	1 US-10-004-551-43	Sequence 43, App1
C 8	12	40.0	14	1 US-09-504-231A-1451	Sequence 1451, Ap
C 9	12	40.0	14	1 US-09-274-553D-1451	Sequence 1451, Ap
C 10	10.8	36.0	14	1 US-09-504-231A-1435	Sequence 1435, Ap
C 11	10.8	36.0	14	1 US-09-274-553D-1435	Sequence 1435, Ap
C 12	10	33.3	10	1 US-10-033-145-1327	Sequence 1327, Ap
C 13	10	33.3	13	1 US-09-823-887C-17	Sequence 17, App1
C 14	10	33.3	13	1 US-10-106-799-13	Sequence 13, App1
C 15	9.4	31.3	12	1 US-10-240-580-10	Sequence 10, App1
C 16	9	30.0	10	1 US-08-935-377-14	Sequence 14, App1
C 17	9	30.0	10	1 US-09-822-250-14	Sequence 14, App1
C 18	9	30.0	10	1 US-10-033-145-1647	Sequence 1647, Ap
C 19	9	30.0	10	1 US-10-044-674-86	Sequence 86, App1
C 20	8.4	28.0	10	1 US-09-758-073-6	Sequence 6, App1
C 21	8.4	28.0	10	1 US-09-772-105-77	Sequence 77, App1
C 22	8.4	28.0	10	1 US-10-033-145-1651	Sequence 1651, Ap
C 23	8.4	28.0	10	1 US-10-330-627-141	Sequence 141, App
C 24	8.4	28.0	10	1 US-10-330-627-292	Sequence 292, App
C 25	8.4	28.0	10	1 US-10-330-627-1077	Sequence 1077, Ap
C 26	8.4	28.0	10	1 US-10-352-615-110	Sequence 110, App
C 27	8.4	28.0	11	1 US-09-862-847-15	Sequence 15, App1
C 28	8.4	28.0	11	1 US-10-146-354A-16	Sequence 16, App1
C 29	8.2	27.3	20	1 US-09-954-556-66	Sequence 66, App1
C 30	8	26.7	9	1 US-09-989-789-455	Sequence 455, App
C 31	8	26.7	9	1 US-09-989-789-456	Sequence 456, App
C 32	8	26.7	9	1 US-09-990-186-455	Sequence 455, App
C 33	8	26.7	9	1 US-09-990-186-456	Sequence 456, App

C 34	8	26.7	9	1 US-09-989-994-455	Sequence 455, App
C 35	8	26.7	9	1 US-09-989-994-456	Sequence 456, App
C 36	8	26.7	9	1 US-10-113-877-5	Sequence 5, App1
C 37	8	26.7	9	1 US-10-339-161-6	Sequence 6, App1
C 38	8	26.7	9	1 US-10-277-494-147	Sequence 147, App
C 39	8	26.7	10	1 US-08-463-404-9	Sequence 9, App1
C 40	8	26.7	10	1 US-10-033-145-185	Sequence 185, App
C 41	8	26.7	10	1 US-10-033-145-1011	Sequence 1011, Ap
C 42	8	26.7	10	1 US-10-113-030-3	Sequence 3, App1
C 43	8	26.7	10	1 US-10-358-818-3	Sequence 3, App1
C 44	8	26.7	10	1 US-10-330-627-344	Sequence 344, App

ALIGNMENTS

RESULT 1
US-09-954-556-65/c
Sequence 65, Application US/09954556
Publication No. US20030078219A1
GENERAL INFORMATION:
APPLICANT: Brett P. Monia
APPLICANT: Susan M. Freiler
TITLE OF INVENTION: ANTISENSE MODULATION OF FIBROBLAST GROWTH FACTOR RECEPTOR 2 EXPRE
FILE REFERENCE: RTS-0250
CURRENT APPLICATION NUMBER: US/09/954, 556
CURRENT FILING DATE: 2001-09-14
NUMBER OF SEQ ID NOS: 108
SEQ ID NO 65
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Antisense Oligonucleotide
US-09-954-556-65

Query Match 66.7%: Score 20; DB 1; Length 20;
Best Local Similarity 100.0%: Pred. No. 0.62;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

Qy 1479 CACGACCAAGAGCCAGACT 1498
Db 20 CACGACCAAGAGCCAGACT 1

RESULT 2
US-09-954-556-66/c
Sequence 66, Application US/09954556
Publication No. US20030078219A1
GENERAL INFORMATION:
APPLICANT: Brett P. Monia
APPLICANT: Susan M. Freiler
TITLE OF INVENTION: ANTISENSE MODULATION OF FIBROBLAST GROWTH FACTOR RECEPTOR 2 EXPRE
FILE REFERENCE: RTS-0250
CURRENT APPLICATION NUMBER: US/09/954, 556
CURRENT FILING DATE: 2001-09-14
NUMBER OF SEQ ID NOS: 108
SEQ ID NO 66
LENGTH: 20
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Antisense Oligonucleotide
US-09-954-556-66

Query Match 66.7%: Score 20; DB 1; Length 20;
Best Local Similarity 100.0%: Pred. No. 0.62;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
Qy 1484 CCAAGAGCCAGACTTCAC 1503
|||||

Db 20 CCAAGAGCCAGACTCAGC 1

RESULT 3

US-09-954-556-67/c
; Sequence 67, Application US/09954556
; Publication No. US20030078219A1
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monla
; APPLICANT: Susan M. Freiler
; APPLICANT: Scott Cooper
; TITLE OF INVENTION: ANTISENSE MODULATION OF FIBROBLAST GROWTH FACTOR RECEPTOR 2 EXPRE
; FILE REFERENCE: RRS-0250
; CURRENT APPLICATION NUMBER: US/09/954,556
; CURRENT FILING DATE: 2001-09-14
; NUMBER OF SEQ ID NOS: 108
; SEQ ID NO 67
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-09-954-556-67

Query Match 66.7%; Score 20; DB 1; Length 20;
Best Local Similarity 100.0%; Pred. No. 0.62;
Matches 20; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

OY 1489 AAGCCAGCTTCAGCAGCA 1508
Db 20 AAGCCAGCTTCAGCAGCA 1

RESULT 4

US-10-307-005-1799
; Sequence 1799, Application US/10307005
; Publication No. US20030236208A1
; GENERAL INFORMATION:
; APPLICANT: University of Delaware
; APPLICANT: Eric B. Kmiec
; APPLICANT: Howard B. Gamper
; APPLICANT: Michael C. Rice
; APPLICANT: Jungsup Kim
; TITLE OF INVENTION: Targeted Chromosomal Genomic Alterations in Plants
; FILE REFERENCE: Napro/009 PCT
; CURRENT APPLICATION NUMBER: US/10/307,005
; CURRENT FILING DATE: 2002-11-26
; PRIOR APPLICATION NUMBER: PCT/US01/17672
; PRIOR FILING DATE: 2001-06-01
; PRIOR APPLICATION NUMBER: US 60/208,538
; PRIOR FILING DATE: 2000-06-01
; PRIOR APPLICATION NUMBER: US 60/244,989
; PRIOR FILING DATE: 2000-10-30
; PRIOR APPLICATION NUMBER: US 09/818,875
; PRIOR FILING DATE: 2001-03-27
; NUMBER OF SEQ ID NOS: 2717
; SOFTWARE: Friedman macro Napro4
; SEQ ID NO 1799
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Solanum tuberosum
US-10-307-005-1799

Query Match 46.0%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 4.8;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1485 CAGAAGCCAGACTTCA 1501
Db 1 CAGAAGCTTAACCTCA 17

RESULT 5
US-10-307-005-1800/c

; Sequence 1800, Application US/10307005
; Publication No. US20030236208A1
; GENERAL INFORMATION:
; APPLICANT: University of Delaware
; APPLICANT: Eric B. Kmiec
; APPLICANT: Howard B. Gamper
; APPLICANT: Michael C. Rice
; APPLICANT: Jungsup Kim
; TITLE OF INVENTION: Targeted Chromosomal Genomic Alterations in Plants
; FILE REFERENCE: Napro/009 PCT
; CURRENT APPLICATION NUMBER: US/10/307,005
; CURRENT FILING DATE: 2002-11-26
; PRIOR APPLICATION NUMBER: PCT/US01/17672
; PRIOR FILING DATE: 2001-06-01
; PRIOR APPLICATION NUMBER: US 60/208,538
; PRIOR FILING DATE: 2000-06-01
; PRIOR APPLICATION NUMBER: US 60/244,989
; PRIOR FILING DATE: 2000-10-30
; PRIOR APPLICATION NUMBER: US 09/818,875
; PRIOR FILING DATE: 2001-03-27
; NUMBER OF SEQ ID NOS: 2717
; SOFTWARE: Friedman macro Napro4
; SEQ ID NO 1800
; LENGTH: 17
; TYPE: DNA
; ORGANISM: Solanum tuberosum
US-10-307-005-1800

Query Match 46.0%; Score 13.8; DB 1; Length 17;
Best Local Similarity 88.2%; Pred. No. 4.8;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1485 CAGAAGCCAGACTTCA 1501
Db 17 CAGAAGCTTAACCTCA 1

RESULT 6

US-10-004-551-40
; Sequence 40, Application US/10004551
; Publication No. US20030004310A1
; GENERAL INFORMATION:
; APPLICANT: SHIMKERS, RICHARD A
; APPLICANT: FERNANDES, ELMA
; TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES ENCODED THEREBY
; FILE REFERENCE: 15965-559
; CURRENT APPLICATION NUMBER: US/10/004,551
; CURRENT FILING DATE: 2001-12-05
; PRIOR APPLICATION NUMBER: 09/635,949
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 110
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 40
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: PCR PRIMER
US-10-004-551-40

Query Match 46.0%; Score 13.8; DB 1; Length 18;
Best Local Similarity 88.2%; Pred. No. 5.1;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

OY 1481 CGACCAAGAGCCAGAC 1497
Db 2 CTACCAAGAGCCAGCC 18

RESULT 7

US-10-004-551-43/C
; Sequence 43, Application US/10004551
; Publication No. US20030004310A1
; GENERAL INFORMATION:
; APPLICANT: SHIMKETS, RICHARD A
; APPLICANT: FERNANDES, ELMA
; TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES ENCODED THEREBY
; FILE REFERENCE: 15966-559
; CURRENT APPLICATION NUMBER: US/10/004,551
; CURRENT FILING DATE: 2001-12-05
; PRIOR APPLICATION NUMBER: 09/635,949
; PRIOR FILING DATE: 2000-08-10
; NUMBER OF SEQ ID NOS: 110
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 43
; LENGTH: 18
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: PCR PRIMER
US-10-004-551-43

Query Match 46.0%; Score 13.8; DB 1; Length 18;
Best Local Similarity 88.2%; Pred. No. 5.1;
Matches 15; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1481 CGACGAGAGAGCCAGC 1497
DB 17 CTTCAGCAGCACA 1

RESULT 8
US-09-504-231A-1451/C
; Sequence 1451, Application US/09504231A
; Patent No. US20020013458A1
; GENERAL INFORMATION:
; APPLICANT: Blact, Lawrence
; APPLICANT: McSwigen, James
; APPLICANT: Roberts, Beth
; APPLICANT: Pavco, Pamela
; APPLICANT: Macejak, Dennis
; TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT OF DISEASES OR CONDITIONS RELATE
; FILE REFERENCE: TPI 247/282
; CURRENT APPLICATION NUMBER: US/09/504,231A
; CURRENT FILING DATE: 2000-02-15
; PRIOR APPLICATION NUMBER: 09/274,553
; PRIOR FILING DATE: 1999-03-23
; PRIOR APPLICATION NUMBER: 09/257,608
; PRIOR FILING DATE: 1999-02-24
; PRIOR APPLICATION NUMBER: 60/100,842
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/083,217
; PRIOR FILING DATE: 1998-04-27
; NUMBER OF SEQ ID NOS: 3242
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1451
; LENGTH: 14
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Nucleic Acid Target
US-09-504-231A-1451

Query Match 40.0%; Score 12; DB 1; Length 14;
Best Local Similarity 100.0%; Pred. No. 7.3;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1497 CTTCAGCAGCACA 1508
DB 12 CTTCAGCAGCACA 1

RESULT 9
US-09-274-553D-1451/C
; Sequence 1451, Application US/09274553D
; Patent No. US20020082258A1
; GENERAL INFORMATION:
; APPLICANT: Blact, Lawrence
; APPLICANT: McSwigen, James
; APPLICANT: Roberts, Beth
; APPLICANT: Pavco, Pamela
; APPLICANT: Macejak, Dennis
; TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT OF DISEASES OR CONDITIONS RELATE
; FILE REFERENCE: TPI 247/282
; CURRENT APPLICATION NUMBER: US/09/274,553D
; CURRENT FILING DATE: 1999-03-23
; PRIOR APPLICATION NUMBER: 09/257,608
; PRIOR FILING DATE: 1999-02-24
; PRIOR APPLICATION NUMBER: 60/100,842
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/083,217
; PRIOR FILING DATE: 1998-04-27
; NUMBER OF SEQ ID NOS: 3148
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1451
; LENGTH: 14
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Nucleic Acid Target
US-09-274-553D-1451

Query Match 40.0%; Score 12; DB 1; Length 14;
Best Local Similarity 100.0%; Pred. No. 7.3;
Matches 12; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1497 CTTCAGCAGCACA 1508
DB 12 CTTCAGCAGCACA 1

RESULT 10
US-09-504-231A-1435/C
; Sequence 1435, Application US/09504231A
; Patent No. US20020013458A1
; GENERAL INFORMATION:
; APPLICANT: Blact, Lawrence
; APPLICANT: McSwigen, James
; APPLICANT: Roberts, Beth
; APPLICANT: Pavco, Pamela
; APPLICANT: Macejak, Dennis
; TITLE OF INVENTION: ENZYMATIC NUCLEIC ACID TREATMENT OF DISEASES OR CONDITIONS RELATE
; FILE REFERENCE: TPI 247/282
; CURRENT APPLICATION NUMBER: US/09/504,231A
; CURRENT FILING DATE: 2000-02-15
; PRIOR APPLICATION NUMBER: 09/274,553
; PRIOR FILING DATE: 1999-03-23
; PRIOR APPLICATION NUMBER: 09/257,608
; PRIOR FILING DATE: 1999-02-24
; PRIOR APPLICATION NUMBER: 60/100,842
; PRIOR FILING DATE: 1998-09-18
; PRIOR APPLICATION NUMBER: 60/083,217
; PRIOR FILING DATE: 1998-04-27
; NUMBER OF SEQ ID NOS: 3242
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1435
; LENGTH: 14
; TYPE: RNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: Nucleic Acid Target
US-09-504-231A-1435

Query Match 36.0%; Score 10.8; DB 1; Length 14;
 Best Local Similarity 85.7%; Pred. No. 11;
 Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1495 GACTTCAGCAGCCA 1508
 |||||
 DB 14 GAGTTGAGCAGCCA 1

RESULT 11
 US-09-274-553D-1435/C
 ; Sequence 1435, Application US/09274553D
 ; Patent No. US2002008225A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Blatte, Lawrence
 ; APPLICANT: McSwigen, James
 ; APPLICANT: Roberts, Beth
 ; APPLICANT: Payco, Pamela
 ; APPLICANT: Macejak, Dennis
 ; TITLE OF INVENTION: ENZYMAITIC NUCLEIC ACID TREATMENT OF DISEASES OR CONDITIONS RELATE
 ; FILE REFERENCE: rpi 247/282
 ; CURRENT APPLICATION NUMBER: US/09/274,553D
 ; CURRENT FILING DATE: 1999-03-23
 ; PRIOR APPLICATION NUMBER: 09/257,608
 ; PRIOR FILING DATE: 1999-02-24
 ; PRIOR APPLICATION NUMBER: 60/100,842
 ; PRIOR FILING DATE: 1998-09-18
 ; PRIOR APPLICATION NUMBER: 60/083,217
 ; PRIOR FILING DATE: 1998-04-27
 ; NUMBER OF SEQ ID NOS: 3148
 ; SOFTWARE: Patentln version 3.0
 ; SEQ ID NO 1435
 ; LENGTH: 14
 ; TYPE: RNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: Description of Artificial Sequence: Nucleic Acid Target
 US-09-274-553D-1435

Query Match 36.0%; Score 10.8; DB 1; Length 14;
 Best Local Similarity 85.7%; Pred. No. 11;
 Matches 12; Conservative 0; Mismatches 2; Indels 0; Gaps 0;

QY 1495 GACTTCAGCAGCCA 1508
 |||||
 DB 14 GAGTTGAGCAGCCA 1

RESULT 12
 US-10-033-145-1327
 ; Sequence 1327, Application US/10033145
 ; Publication No. US2002015151A1
 ; GENERAL INFORMATION:
 ; APPLICANT: GENZYME CORPORATION
 ; APPLICANT: ROBERTS, BRUCE
 ; APPLICANT: SHANKARA, SRINIVAS
 ; TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
 ; FILE REFERENCE: GA0201C
 ; CURRENT APPLICATION NUMBER: US/10/033,145
 ; CURRENT FILING DATE: 2001-11-05
 ; PRIOR APPLICATION NUMBER: PCT/US99/13800
 ; PRIOR FILING DATE: 1999-06-18
 ; NUMBER OF SEQ ID NOS: 2137
 ; SOFTWARE: Patentln version 3.0
 ; SEQ ID NO 1327
 ; LENGTH: 10
 ; TYPE: DNA
 ; ORGANISM: Homo sapiens
 US-10-033-145-1327

Query Match 33.3%; Score 10; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 10;

Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1487 AGAAGCCAGA 1496
 |||||
 DB 1 AGAAGCCAGA 10

RESULT 13
 US-09-823-887C-17
 ; Sequence 17, Application US/09823887C
 ; Publication No. US2003018072A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Kumar, Sarjay
 ; APPLICANT: Lal, Lakshvir
 ; APPLICANT: Ahuja, Parmvir
 ; TITLE OF INVENTION: Cloning of No. US2003018072A1el Gene Sequences Expressed and Rep
 ; FILE REFERENCE: HO53916.0001USO
 ; CURRENT APPLICATION NUMBER: US/09/823,887C
 ; CURRENT FILING DATE: 2002-04-23
 ; NUMBER OF SEQ ID NOS: 33
 ; SOFTWARE: Patentln version 3.1
 ; SEQ ID NO 17
 ; LENGTH: 13
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: primer_bind
 US-09-823-887C-17

Query Match 33.3%; Score 10; DB 1; Length 13;
 Best Local Similarity 100.0%; Pred. No. 13;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1497 CTTGACGAGC 1506
 |||||
 DB 4 CTTGACGAGC 13

RESULT 14
 US-10-106-799-13
 ; Sequence 13, Application US/10106799
 ; Publication No. US20030140379A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Council of Scientific and Industrial Research
 ; TITLE OF INVENTION: No. US20030140379A1el DNA sequence in plants Caragana jubata with
 ; FILE REFERENCE: US 673
 ; CURRENT APPLICATION NUMBER: US/10/106,799
 ; CURRENT FILING DATE: 2002-10-31
 ; NUMBER OF SEQ ID NOS: 32
 ; SOFTWARE: Patentln version 3.1
 ; SEQ ID NO 13
 ; LENGTH: 13
 ; TYPE: DNA
 ; ORGANISM: Artificial Sequence
 ; FEATURE:
 ; OTHER INFORMATION: AF34 arbitrary primer for differential display
 US-10-106-799-13

Query Match 33.3%; Score 10; DB 1; Length 13;
 Best Local Similarity 100.0%; Pred. No. 13;
 Matches 10; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1497 CTTGACGAGC 1506
 |||||
 DB 4 CTTGACGAGC 13

RESULT 15
 US-10-240-580-10/C
 ; Sequence 10, Application US/10240580
 ; Publication No. US20030180716A1

GENERAL INFORMATION:
 APPLICANT: INoue, Takakazu
 TITLE OF INVENTION: METHOD AND APPARATUS FOR MICROORGANISM DISCRIMINATION, METHOD OF
 TITLE OF INVENTION: DATABASE FOR MICROORGANISM DISCRIMINATION, AND MICROORGANISM DIS
 FILE REFERENCE: 9982-24
 CURRENT APPLICATION NUMBER: US/10/240,580
 CURRENT FILING DATE: 2002-09-30
 PRIOR APPLICATION NUMBER: PCT/JP01/02516
 PRIOR FILING DATE: 2001-03-27
 PRIOR APPLICATION NUMBER: JP 2000-99482
 PRIOR FILING DATE: 2000-03-31
 NUMBER OF SEQ ID NOS: 46
 SOFTWARE: PatentIn version 3.1
 SEQ ID NO: 10
 LENGTH: 12
 TYPE: DNA
 ORGANISM: Artificial Sequence
 FEATURE:
 OTHER INFORMATION: Primer
 US-10-240-580-10

Query Match 31.3%; Score 9.4; DB 1; Length 12;
 Best Local Similarity 90.9%; Pred. No. 15;
 Matches 10; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1484 CCAAGAGGCCA 1494
 DB 11 CCAAGAGGCCA 1

RESULT 16

US-08-935-377-14
 Sequence 14, Application US/08935377
 Publication No. US2003013917A1
 GENERAL INFORMATION:
 APPLICANT: Zauderer, Maurice
 TITLE OF INVENTION: T Cells Specific for Target Antigens and
 NUMBER OF SEQUENCES: 37
 CORRESPONDENCE ADDRESS:
 ADDRESSEE: Sterne, Kessler, Goldstein & Fox P.L.L.C
 STREET: 1100 New York Avenue, N.W., Suite 600
 CITY: Washington
 STATE: D.C.
 COUNTRY: USA
 ZIP: 20005
 COMPUTER READABLE FORM:
 MEDIUM TYPE: Floppy disk
 COMPUTER: IBM PC compatible
 OPERATING SYSTEM: PC-DOS/MS-DOS
 SOFTWARE: PatentIn Release #1.0, Version #1.30
 CURRENT APPLICATION DATA:
 APPLICATION NUMBER: US/08/935,377
 FILING DATE: 22-SEP-1997
 CLASSIFICATION: 424
 ATTORNEY/AGENT INFORMATION:
 NAME: Steffe, Eric K
 REGISTRATION NUMBER: 36,688
 REFERENCE/DOCKET NUMBER: 1821.0010000/EKS/CMB
 TELECOMMUNICATION INFORMATION:
 TELEPHONE: (202) 371-2600
 TELEFAX: (202) 371-2540
 INFORMATION FOR SEQ ID NO: 14:
 SEQUENCE CHARACTERISTICS:
 LENGTH: 10 base pairs
 TYPE: nucleic acid
 STRANDEDNESS: single
 TOPOLOGY: linear
 MOLECULE TYPE: cDNA
 US-08-935-377-14

Query Match 30.0%; Score 9; DB 1; Length 10;

Best Local Similarity 100.0%; Pred. No. 14;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
 QY 1493 CAGACTTCA 1501
 DB 2 CAGACTTCA 10

RESULT 17

US-09-822-250-14
 Sequence 14, Application US/09822250
 Patent No. US20020018785A1
 GENERAL INFORMATION:
 APPLICANT: Zauderer, Maurice
 TITLE OF INVENTION: Methods for Producing Recombinant Libraries in Vaccinia Virus
 FILE REFERENCE: 1821.0010001
 CURRENT APPLICATION NUMBER: US/09/822,250
 CURRENT FILING DATE: 2001-04-02
 PRIOR APPLICATION NUMBER: US 08/935,377
 PRIOR FILING DATE: 1997-09-22
 NUMBER OF SEQ ID NOS: 37
 SOFTWARE: PatentIn version 3.0
 SEQ ID NO: 14
 LENGTH: 10
 TYPE: DNA
 ORGANISM: synthetic construct
 US-09-822-250-14

Query Match 30.0%; Score 9; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 14;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1493 CAGACTTCA 1501
 DB 2 CAGACTTCA 10

RESULT 18

US-10-033-145-1647/C
 Sequence 1647, Application US/10033145
 Publication No. US2002015151A1
 GENERAL INFORMATION:
 APPLICANT: GENZYME CORPORATION
 APPLICANT: ROBERTS, BRUCE
 APPLICANT: SHANKARA, SRINIVAS
 TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
 FILE REFERENCE: GA0201C
 CURRENT APPLICATION NUMBER: US/10/033,145
 CURRENT FILING DATE: 2001-11-05
 PRIOR APPLICATION NUMBER: PCT/US99/13800
 PRIOR FILING DATE: 1999-06-18
 NUMBER OF SEQ ID NOS: 2137
 SOFTWARE: PatentIn version 3.0
 SEQ ID NO: 1647
 LENGTH: 10
 TYPE: DNA
 ORGANISM: Homo sapiens
 US-10-033-145-1647

Query Match 30.0%; Score 9; DB 1; Length 10;
 Best Local Similarity 100.0%; Pred. No. 14;
 Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1500 CAGCAGCCA 1508
 DB 10 CAGCAGCCA 2

RESULT 19

US-10-044-674-86/C
 Sequence 86, Application US/10044674
 Publication No. US20030175710A1
 GENERAL INFORMATION:

APPLICANT: Chew, Anne
APPLICANT: Denton, R. Rex
APPLICANT: Bieganski, Karyn M
APPLICANT: Nandabalan, Krishnan
APPLICANT: Stephens, J. Claiborne
TITLE OF INVENTION: HAPLOTYPES OF THE TNFRSF11B GENE
FILE REFERENCE: TNFRSF11B MMH-0001US (CIP)
CURRENT FILING DATE: 2002-01-09
PRIORITY APPLICATION NUMBER: US/10/044,674
PRIORITY FILING DATE: 2000-07-10
NUMBER OF SEQ ID NOS: 94
SOFTWARE: PatentIn version 3.1
SEQ ID NO: 86
LENGTH: 10
TYPE: DNA
ORGANISM: Homo sapiens
US-10-044-674-86

Query Match 30.0%; Score 9; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 14;
Matches 9; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1496 ACTTCAGCA 1504
Db 9 ACTTCAGCA 1

RESULT 20
US-09-758-073-6
Sequence 6, Application US/09758073
Patent No. US20010024785A1
GENERAL INFORMATION:
APPLICANT: Keirath, et al.
TITLE OF INVENTION: Method of Diagnosing Gumy Stem Blight in
TITLE OF INVENTION: Plants Using a Polymerase Chain Reaction Assay
NUMBER OF SEQUENCES: 16
CORRESPONDENCE ADDRESS:
ADDRESSEE: Judy C. Jarecki-Black, Ph.D.
ADDRESSEE: Dorily & Manning, P.A.
STREET: 700 E. No. US20010024785A1th Street, Suite 15
CITY: Greenville
STATE: South Carolina
COUNTRY: USA
ZIP: 29601
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette, 3.50 inch, 1.44 Mb storage
OPERATING SYSTEM: MS Dos; Windows 95
SOFTWARE: WordPerfect 6.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/09/758,073
FILING DATE: Filed Herewith
CLASSIFICATION:
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/078,103
FILING DATE: 16-MAR-1998
ATTORNEY/AGENT INFORMATION:
NAME: Judy C. Jarecki-Black, Ph.D.
REGISTRATION NUMBER: PA4,170
REFERENCE/DOCKET NUMBER: CU-291
TELECOMMUNICATION INFORMATION:
TELEPHONE: (864) 271-1592
TELEFAX: (864) 233-7342
INFORMATION FOR SEQ ID NO: 6:
SEQUENCE CHARACTERISTICS:
LENGTH: 10 Pairs
TYPE: Nucleic Acid
STRANDEDNESS: Single
TOPOLOGY: Linear
MOLECULE TYPE: Other Nucleic Acid
DESCRIPTION: Oligonucleotide Primer
HYPOTHETICAL: No

ANTI-SENSE: NO
ORIGINAL SOURCE: Operon Technologies (Alameda, CA)
IMMEDIATE SOURCE: Operon Technologies
POSITION IN GENOME: No. US20010024785A1 Applicable
UNITS:
FEATURE:
OTHER INFORMATION: Commercially Available Primer
PUBLICATION INFORMATION: No. US20010024785A1 Applicable
US-09-758-073-6

Query Match 28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 17;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1488 GAAGCCAGAC 1497
Db 1 GATGCCAGAC 10

RESULT 21
US-09-772-105-77/c
Sequence 77, Application US/09772105
Patent No. US20010029015A1
GENERAL INFORMATION:
APPLICANT: Ozelius, Laurie J.
APPLICANT: Breakefield, Xandra O.
TITLE OF INVENTION: TORSIN, TORSIN-RELATED GENES, AND
TITLE OF INVENTION: METHODS OF DETECTING NEURONAL DISEASES
FILE REFERENCE: 0838.1001009
CURRENT APPLICATION NUMBER: US/09/772,105
CURRENT FILING DATE: 2001-01-26
PRIOR APPLICATION NUMBER: US 09/218,363
PRIOR FILING DATE: 1998-12-22
PRIOR APPLICATION NUMBER: US 09/099,454
PRIOR FILING DATE: 1998-06-18
PRIOR APPLICATION NUMBER: US 60/050,244
PRIOR FILING DATE: 1997-06-19
NUMBER OF SEQ ID NOS: 90
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 77
LENGTH: 10
TYPE: DNA
ORGANISM: Unknown
FEATURE:
OTHER INFORMATION: Exon/Intron of TORB
US-09-772-105-77

Query Match 28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 17;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1485 CAAGAGCCA 1494
Db 10 CAAGAGCCA 1

RESULT 22
US-10-033-145-1651
Sequence 1651, Application US/10033145
Publication No. US2002015151A1
GENERAL INFORMATION:
APPLICANT: GENZYME CORPORATION
APPLICANT: ROBERTS, BRUCE
APPLICANT: SHANKARA, SRINIVAS
TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
FILE REFERENCE: GA0201C
CURRENT APPLICATION NUMBER: US/10/033,145
CURRENT FILING DATE: 2001-11-05
PRIOR APPLICATION NUMBER: PCT/US99/13800
PRIOR FILING DATE: 1999-06-18
NUMBER OF SEQ ID NOS: 2137
SOFTWARE: PatentIn version 3.0
SEQ ID NO 1651

LENGTH: 10
TYPE: DNA
ORGANISM: Homo sapiens
US-10-033-145-1651

Query Match 28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 17;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1488 GAAGCCAGAC 1497
DB 1 GAAGCCAGCC 10

RESULT 23
US-10-330-627-141/C
Sequence 141, Application US/10330627
Publication No. US20030175771A1
GENERAL INFORMATION:
APPLICANT: Velculescu, Victor E.
APPLICANT: Kinzler, Kenneth W.
TITLE OF INVENTION: Human Transcripts
FILE REFERENCE: 001107.00319
CURRENT APPLICATION NUMBER: US/10/330,627
CURRENT FILING DATE: 2002-12-30
PRIOR APPLICATION NUMBER: US 09/448,480
PRIOR FILING DATE: 1999-11-24
NUMBER OF SEQ ID NOS: 1564
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 141
LENGTH: 10
TYPE: DNA
ORGANISM: Homo sapiens
US-10-330-627-141

Query Match 28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 17;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1496 ACTTACGACG 1505
DB 10 ACTTACGACG 1

RESULT 24
US-10-330-627-292
Sequence 292, Application US/10330627
Publication No. US20030175771A1
GENERAL INFORMATION:
APPLICANT: Velculescu, Victor E.
APPLICANT: Kinzler, Kenneth W.
TITLE OF INVENTION: Human Transcripts
FILE REFERENCE: 001107.00319
CURRENT APPLICATION NUMBER: US/10/330,627
CURRENT FILING DATE: 2002-12-30
PRIOR APPLICATION NUMBER: US 09/448,480
PRIOR FILING DATE: 1999-11-24
NUMBER OF SEQ ID NOS: 1564
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 292
LENGTH: 10
TYPE: DNA
ORGANISM: Homo sapiens
US-10-330-627-292

Query Match 28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 17;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1499 TCAGACGCA 1508
DB 1 TCAGACGCA 10

DB 1 TCAGACGCA 10

RESULT 25
US-10-330-627-1077/C
Sequence 1077, Application US/10330627
Publication No. US20030175771A1
GENERAL INFORMATION:
APPLICANT: Velculescu, Victor E.
APPLICANT: Kinzler, Kenneth W.
TITLE OF INVENTION: Human Transcripts
FILE REFERENCE: 001107.00319
CURRENT APPLICATION NUMBER: US/10/330,627
CURRENT FILING DATE: 2002-12-30
PRIOR APPLICATION NUMBER: US 09/448,480
PRIOR FILING DATE: 1999-11-24
NUMBER OF SEQ ID NOS: 1564
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 1077
LENGTH: 10
TYPE: DNA
ORGANISM: Homo sapiens
US-10-330-627-1077

Query Match 28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 17;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1490 AGCCAGCTT 1499
DB 10 AGCCAGCTT 1

RESULT 26
US-10-352-615-110
Sequence 110, Application US/10352615
Publication No. US20030190285A1
GENERAL INFORMATION:
APPLICANT: VAN DEN VEN, W.J.M.
TITLE OF INVENTION: MULTIPLE-TUMOR ABERRENT GROWTH
GENES
NUMBER OF SEQUENCES: 164
CORRESPONDENCE ADDRESS:
ADDRESSEE: The Webb Law Firm
STREET: 700 Koppers Building, 436 Seventh Avenue
CITY: Pittsburgh
STATE: PA
COUNTRY: USA
ZIP: 15219-1818
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq for Windows Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/10/352,615
FILING DATE: 28-Jan-2003
CLASSIFICATION: 424
PRIOR APPLICATION DATA:
APPLICATION NUMBER: US/08/894,454
FILING DATE: 15-AUG-1997
APPLICATION NUMBER: PCT/EP/00716
FILING DATE: 19-FEB-1996
APPLICATION NUMBER: 95200390.3
FILING DATE: 17-FEB-1995
APPLICATION NUMBER: 95201951.1
FILING DATE: 14-JUL-1995
ATTORNEY/AGENT INFORMATION:
NAME: Johnson, Barbara E
REGISTRATION NUMBER: 31,198
REFERENCE/DOCKET NUMBER: 702-971100

```

; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 412-471-8815
; TELEFAX: 412-471-4094
; TELEX: <Unknown>
; INFORMATION FOR SEQ ID NO: 110:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; SEQUENCE DESCRIPTION: SEQ ID NO: 110:
US-10-352-615-110

Query Match          28.0%; Score 8.4; DB 1; Length 10;
Best Local Similarity 90.0%; Pred. No. 17;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1486 AAGAGGCCAG 1495
DB      1 AAGAGGCCAG 10

RESULT 27
US-09-862-847-15/C
; Sequence 15, Application US/09862847
; Patent No. US20020177230A1
; GENERAL INFORMATION:
; APPLICANT: Baric, Ralph S.
; APPLICANT: Boyd, Yount
; TITLE OF INVENTION: DIRECTION ASSEMBLY OF LARGE VIRAL GENOMES AND CHROMOSOMES
; FILE REFERENCE: 5470.270
; CURRENT APPLICATION NUMBER: US/09/862,847
; CURRENT FILING DATE: 2001-05-21
; PRIOR APPLICATION NUMBER: US 60/206,537
; PRIOR FILING DATE: 2000-05-21
; PRIOR APPLICATION NUMBER: US 60/285,320
; PRIOR FILING DATE: 2001-04-20
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 15
; LENGTH: 11
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Synthetic oligonucleotide primer.
US-09-862-847-15

Query Match          28.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 19;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1484 CCAAGAGGCC 1493
DB      10 CCAAGAGGCC 1

RESULT 28
US-10-146-354A-16/C
; Sequence 16, Application US/10146354A
; Publication No. US20030054381A1
; GENERAL INFORMATION:
; APPLICANT: Pfizer Inc.
; APPLICANT: Seymour, Albert B.
; APPLICANT: Nelson, Darcy L.
; APPLICANT: Webb, Suzin M.
; APPLICANT: Affoultit, Jason P.
; TITLE OF INVENTION: GENETIC POLYMORPHISMS IN THE HUMAN NEUROKININ 1 RECEPTOR GENE AND
; TITLE OF INVENTION: USES IN DIAGNOSIS AND TREATMENT OF DISEASES
; FILE REFERENCE: PC10461AGPR
; CURRENT APPLICATION NUMBER: US/10/146,354A
; CURRENT FILING DATE: 2002-08-15
; PRIOR APPLICATION NUMBER: 60/293,425
; PRIOR FILING DATE: 2001-05-25
```

```

; NUMBER OF SEQ ID NOS: 48
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 16
; LENGTH: 11
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-146-354A-16

Query Match          28.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 19;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY      1489 AAGCCAGACT 1498
DB      10 AAGCCAGACT 1

RESULT 29
US-09-954-556-66
; Sequence 66, Application US/09954556
; Publication No. US20030078219A1
; GENERAL INFORMATION:
; APPLICANT: Brett P. Monla
; APPLICANT: Susan M. Freiler
; APPLICANT: Scott Cooper
; TITLE OF INVENTION: ANTISENSE MODULATION OF FIBROBLAST GROWTH FACTOR RECEPTOR 2 EXPRES
; FILE REFERENCE: RTS-0250
; CURRENT APPLICATION NUMBER: US/09/954,556
; CURRENT FILING DATE: 2001-09-14
; NUMBER OF SEQ ID NOS: 108
; SEQ ID NO 66
; LENGTH: 20
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Antisense Oligonucleotide
US-09-954-556-66

Query Match          27.3%; Score 8.2; DB 1; Length 20;
Best Local Similarity 76.9%; Pred. No. 29;
Matches 10; Conservative 0; Mismatches 3; Indels 0; Gaps 0;

QY      1488 GAAGCTGGCTTC 1500
DB      4 GAAGCTGGCTTC 16

RESULT 30
US-09-989-789-455/C
; Sequence 455, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: Liu, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-C011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 455
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
US-09-989-789-455

Query Match          26.7%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 95;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
```

QY 1493 CAGACTTC 1500
Db 8 CAGACTTC 1

RESULT 31
US-09-989-789-456/c
; Sequence 456, Application US/09989789
; Patent No. US20020063379A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,789
; CURRENT FILING DATE: 2002-03-25
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 456
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
US-09-989-789-456

Query Match 26.7%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 95;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1493 CAGACTTC 1500
Db 8 CAGACTTC 1

RESULT 32
US-09-990-186-455/c
; Sequence 455, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 455
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
US-09-990-186-455

Query Match 26.7%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 95;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1493 CAGACTTC 1500
Db 8 CAGACTTC 1

RESULT 33
US-09-990-186-456/c
; Sequence 456, Application US/09990186
; Publication No. US20030068675A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang

; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.21 / S11-US3
; CURRENT APPLICATION NUMBER: US/09/990,186
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 456
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
US-09-990-186-456

Query Match 26.7%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 95;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1493 CAGACTTC 1500
Db 8 CAGACTTC 1

RESULT 34
US-09-989-994-455/c
; Sequence 455, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 455
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: Description of Artificial Sequence: example target
US-09-989-994-455

Query Match 26.7%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 95;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1493 CAGACTTC 1500
Db 8 CAGACTTC 1

RESULT 35
US-09-989-994-456/c
; Sequence 456, Application US/09989994
; Publication No. US20030104526A1
; GENERAL INFORMATION:
; APPLICANT: LIU, Qiang
; TITLE OF INVENTION: POSITION DEPENDENT RECOGNITION OF GNN NUCLEOTIDE
; FILE REFERENCE: 8325-0011.20 / S11-US2
; CURRENT APPLICATION NUMBER: US/09/989,994
; CURRENT FILING DATE: 2001-11-20
; NUMBER OF SEQ ID NOS: 4085
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 456
; LENGTH: 9
; TYPE: DNA
; ORGANISM: Artificial Sequence

FEATURE:
OTHER INFORMATION: Description of Artificial Sequence: example target
OTHER INFORMATION: DNA
US-09-989-994-456

Query Match 26.7%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 95;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1493 CAGACTTC 1500
|||||
Db 8 CAGACTTC 1

RESULT 36
US-10-113-877-5
Sequence 5, Application US/10113877
Publication No. US2002017218A1
GENERAL INFORMATION:
APPLICANT: Fang, Yu
APPLICANT: Wang, Xiao-Yang
APPLICANT: Turpin, Pierre
TITLE OF INVENTION: Methods of detecting multiple DNA
TITLE OF INVENTION: binding protein and DNA interactions in a sample, and
TITLE OF INVENTION: devices, systems and kits for practicing the same.
FILE REFERENCE: CLON-071
CURRENT APPLICATION NUMBER: US/10/113,877
CURRENT FILING DATE: 2002-03-29
PRIOR APPLICATION NUMBER: 60/280,658
PRIOR FILING DATE: 2001-03-30
PRIOR APPLICATION NUMBER: 60/314,330
PRIOR FILING DATE: 2001-08-20
NUMBER OF SEQ ID NOS: 192
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 5
LENGTH: 9
TYPE: DNA
ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: oligonucleotide
US-10-113-877-5

Query Match 26.7%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 95;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1490 AGCCAGAC 1497
|||||
Db 1 AGCCAGAC 8

RESULT 37
US-10-339-161-6
Sequence 6, Application US/10339161
Publication No. US2003016221A1
GENERAL INFORMATION:
APPLICANT: Remacle, Jose
APPLICANT: Renard, Patricia
APPLICANT: Art, Muriel
TITLE OF INVENTION: METHOD AND KIT FOR THE DETERMINATION OF
TITLE OF INVENTION: CELLULAR ACTIVATION PROFILES
FILE REFERENCE: VANM212.001CPI
CURRENT APPLICATION NUMBER: US/10/339,161
CURRENT FILING DATE: 2003-01-07
PRIOR APPLICATION NUMBER: US 09/816,763
PRIOR FILING DATE: 2001-03-23
PRIOR APPLICATION NUMBER: EP 00870057.7
PRIOR FILING DATE: 2000-03-24
NUMBER OF SEQ ID NOS: 27
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 6
LENGTH: 9
TYPE: DNA

ORGANISM: Artificial Sequence
FEATURE:
OTHER INFORMATION: Transcription factor SMAD 4
US-10-339-161-6

Query Match 26.7%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 95;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1490 AGCCAGAC 1497
|||||
Db 1 AGCCAGAC 8

RESULT 38
US-10-277-494-147/c
Sequence 147, Application US/10277494
Publication No. US20030186909A1
GENERAL INFORMATION:
APPLICANT: Ribozyne Pharmaceuticals, Inc.
APPLICANT: McSwigen, Jim
TITLE OF INVENTION: Nucleic Acid Treatment of Diseases or conditions Related To Level;
TITLE OF INVENTION: Epidermal Growth Factor Receptors
FILE REFERENCE: MBH80-958-K (400/064)
CURRENT APPLICATION NUMBER: US/10/277,494
CURRENT FILING DATE: 2002-10-21
NUMBER OF SEQ ID NOS: 446
SOFTWARE: PatentIn version 3.0
SEQ ID NO 147
LENGTH: 9
TYPE: RNA
ORGANISM: Homo sapiens
US-10-277-494-147

Query Match 26.7%; Score 8; DB 1; Length 9;
Best Local Similarity 100.0%; Pred. No. 95;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1500 CAGCAGCC 1507
|||||
Db 8 CAGCAGCC 1

RESULT 39
US-08-463-404-9/c
Sequence 9, Application US/08463404
Publication No. US20020127634A1
GENERAL INFORMATION:
APPLICANT: Michael D. West
APPLICANT: Jerry W. Shay
APPLICANT: Woodring E. Wright
APPLICANT: Elizabeth Blackburn
TITLE OF INVENTION: THERAPY AND DIAGNOSIS OF CONDITIONS
TITLE OF INVENTION: RELATED TO TELOMERE LENGTH AND/OR
TITLE OF INVENTION: TELOMERASE ACTIVITY
NUMBER OF SEQUENCES: 57
CORRESPONDENCE ADDRESS:
ADDRESSEE: Lyon & Lyon
STREET: 633 West Fifth Street
STREET: Suite 4700
CITY: Los Angeles
STATE: California
COUNTRY: U.S.A.
ZIP: 90071-2066
COMPUTER READABLE FORM:
MEDIUM TYPE: 3.5" Diskette, 1.44 Mb
MEDIUM TYPE: storage
COMPUTER: IBM compatible
OPERATING SYSTEM: IBM P.C. DOS 5.0
SOFTWARE: Word Perfect 5.1
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/463,404
FILING DATE: 05-JUN-1995

```

; CLASSIFICATION: 435
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: 08/060,952
; FILING DATE: May 13, 1993
; APPLICATION NUMBER: 07/882,438
; FILING DATE: May 13, 1992
; APPLICATION NUMBER: 08/038,766
; FILING DATE: March 24, 1993
; ATTORNEY/AGENT INFORMATION:
; NAME: Warburg, Richard J.
; REGISTRATION NUMBER: 32,327
; REFERENCE/DOCKET NUMBER: 202/045
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (213) 489-1600
; TELEFAX: (213) 955-0440
; TELEX: 67-3510
; INFORMATION FOR SEQ ID NO: 9:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 10
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
;
US-08-463-404-9

Query Match          26.7%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1483 ACCAGAA 1490
Db 8 ACCAGAA 1

RESULT 40
US-10-033-145-185/c
; Sequence 185, Application US/10033145
; Publication No. US2002015151A1
; GENERAL INFORMATION:
; APPLICANT: GENZYME CORPORATION
; APPLICANT: ROBERTS, BRUCE
; APPLICANT: SHANKARA, SRINIVAS
; TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
; FILE REFERENCE: GA0201C
; CURRENT APPLICATION NUMBER: US/10/033,145
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: PCT/US99/13800
; PRIOR FILING DATE: 1999-06-18
; NUMBER OF SEQ ID NOS: 2137
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 185
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Homo sapiens
;
US-10-033-145-185

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Best Local Similarity 100.0%; Pred. No. 20;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1491 GCCAGACT 1498
Db 10 GCCAGACT 3

RESULT 41
US-10-033-145-1011
; Sequence 1011, Application US/10033145
; Publication No. US2002015151A1
; GENERAL INFORMATION:
; APPLICANT: GENZYME CORPORATION
; APPLICANT: ROBERTS, BRUCE
; APPLICANT: SHANKARA, SRINIVAS
; TITLE OF INVENTION: PREPARATION AND USE OF SUPERIOR VACCINES
```

```

; FILE REFERENCE: GA0201C
; CURRENT APPLICATION NUMBER: US/10/033,145
; CURRENT FILING DATE: 2001-11-05
; PRIOR APPLICATION NUMBER: PCT/US99/13800
; PRIOR FILING DATE: 1999-06-18
; NUMBER OF SEQ ID NOS: 2137
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 1011
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Homo sapiens
;
US-10-033-145-1011

Query Match          26.7%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1498 TTCAGCAG 1505
Db 1 TTCAGCAG 8

RESULT 42
US-10-113-030-3/c
; Sequence 3, Application US/10113030
; Publication No. US2003007610A1
; GENERAL INFORMATION:
; APPLICANT: Nelson, John
; APPLICANT: Fuller, Carl
; APPLICANT: Sood, Anup
; APPLICANT: Kumar, Shiv
; TITLE OF INVENTION: Terminal-Phosphate-Labeled Nucleotides and Methods of Use
; FILE REFERENCE: PB0156-1
; CURRENT APPLICATION NUMBER: US/10/113,030
; CURRENT FILING DATE: 2002-04-01
; PRIOR APPLICATION NUMBER: US 60/315,798
; PRIOR FILING DATE: 2001-08-29
; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: DNA Template
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US-10-113-030-3

Query Match          26.7%; Score 8; DB 1; Length 10;
Best Local Similarity 100.0%; Pred. No. 20;
Matches 8; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1500 CAGCAGCC 1507
Db 10 CAGCAGCC 3

RESULT 43
US-10-358-818-3/c
; Sequence 3, Application US/10358818
; Publication No. US2003016221A1
; GENERAL INFORMATION:
; APPLICANT: Fuller, Carl
; APPLICANT: Kumar, Shiv
; APPLICANT: Sood, Anup
; APPLICANT: Nelson, John
; TITLE OF INVENTION: Terminal-Phosphate-Labeled Nucleotides and Methods of Use
; FILE REFERENCE: PB0156-1CIP
; CURRENT APPLICATION NUMBER: US/10/358,818
; CURRENT FILING DATE: 2003-02-05
; PRIOR APPLICATION NUMBER: US 60/315,798
; PRIOR FILING DATE: 2001-08-29
; PRIOR APPLICATION NUMBER: US 10/113,030
; PRIOR FILING DATE: 2002-04-01
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; NUMBER OF SEQ ID NOS: 3
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 3
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Artificial Sequence
; FEATURE:
; OTHER INFORMATION: DNA Template
US-10-358-818-3

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Best Local Similarity 100.0%;  Pred. No. 20;
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QY      1500 CAGCAGCC 1507
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Db      10 CAGCAGCC 3

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RESULT 44
US-10-330-627-344/c
; Sequence 344, Application US/10330627
; Publication No. US20030175771A1
; GENERAL INFORMATION:
; APPLICANT: Velculescu, Victor E.
; APPLICANT: Kinzler, Kenneth W
; APPLICANT: Vogelstein, Bert
; TITLE OF INVENTION: Human Transcripts
; FILE REFERENCE: 001107.00319
; CURRENT APPLICATION NUMBER: US/10/330,627
; CURRENT FILING DATE: 2002-12-30
; PRIOR APPLICATION NUMBER: US 09/448,480
; PRIOR FILING DATE: 1999-11-24
; NUMBER OF SEQ ID NOS: 1564
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 344
; LENGTH: 10
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-330-627-344

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Query Match      26.7%  Score 8;  DB 1;  Length 10;
Best Local Similarity 100.0%;  Pred. No. 20;
Matches 8;  Conservative 0;  Mismatches 0;  Indels 0;  Gaps 0;

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QY      1501 AGCAGCCA 1508
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Db      10 AGCAGCCA 3

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Search completed: April 15, 2004, 16:38:43
 Job time : 0.001 secs

GenCore version 5.1.6
Copyright (c) 1993 - 2004 CompuGen Ltd.

OM nucleic - nucleic search, using sw model

Run on: April 15, 2004, 16:45:10 ; Search time 0.001 Seconds
(without alignments):
0.660 Million cell updates/sec

Title: us-09-954-556-3
Perfect score: 30
Sequence: 1 cagaccagaagacagactcagcagcca 30

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 0.5

Searched: 1 seqs, 11 residues

Total number of hits satisfying chosen parameters: 2

Minimum DB seq length: 8
Maximum DB seq length: 50

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 1 summaries

Database : rst.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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1	8.4	28.0	11	1	BG896271 ACCESSION:BG896271

ALIGNMENTS

RESULT 1
BG896271 11 bp mRNA linear EST 06-NOV-2001
LOCUS HOA28-1-G6 HOA (Human Osteoarthritic Cartilage) Homo sapiens cDNA,
DEFINITION mRNA sequence.
ACCESSION BG896271
VERSION BG896271.1 GI:14306512
KEYWORDS EST.
SOURCE Homo sapiens (human)
ORGANISM Homo sapiens
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;
Mammalia; Eutheria; Primates; Catarrhini; Homnidae; Homo.
1 (bases 1 to 11)
Kumar,S., Connor,J.R., Dodds,R.A., Halsey,W., Van Horn,M., Mao,J.,
Sathe,G., Mui,P., Agarwal,P., Badger,A.M., Lee,J.C., Gowen,M. and
Lark,M.W.
Identification and initial characterization of 5000 expressed
sequenced tags (ESTs) each from adult human normal and
osteoarthritic cartilage cDNA libraries
Osteoarthr. Cartil. 9 (7), 641-653 (2001)
JOURNAL MEDLINE
PUBMED 21482651
11597177
Contact: Sanjay Kumar
UM2109
GlaxoSmithKline
709 Swedeland Road, P.O. Box 1539, King of Prussia, PA 19406, USA
Tel: 610-270-7245

Fax: 610-270-5598
Email: sanjay.kumar-1@sk.com
Seq primer: T7
Location/Qualifiers

FEATURES
source 1..11

/organism="Homo sapiens"
/mol_type="mRNA"
/db_xref="taxon:9606"
/tissue_type="cartilage"
/lab_host="E.coli DH10 B"
/clone_lib="HOA (Human Osteoarthritic Cartilage)"
/note="Vector: pSPORT 1; Site_1: SalI; Site_2: NotI;
directional"

Query Match 28.0%; Score 8.4; DB 1; Length 11;
Best Local Similarity 90.0%; Pred. No. 0;
Matches 9; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1489 AAGCCAGACT 1498
Db 1 AAGCCAGACT 10

Search completed: April 15, 2004, 16:45:10
Job time : 0.001 secs.

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